### **AMENDMENTS TO THE SPECIFICATION**

Please replace the paragraphs at page 6, lines 22-27 with the following rewritten paragraphs:

-- Figures 7A-7H show the cDNA sequence (SEQ ID NO: 19) and amino acid sequence (SEQ ID NO: 111) of Gene 454 with the corresponding SNPs underlined.

Figure 8 shows the results of RT-PCR analysis of Gene 561.1 and Gene 561.2.

Figures 9A-9F show the cDNA sequence (SEQ ID NO: 90) and amino acid sequence (SEQ ID NO: 153) of Gene 757 with the corresponding SNPs underlined. --

Please replace the paragraphs at page 9, lines 3-6 with the following rewritten paragraphs:

-- Figures 27A-27K show the cDNA sequence (SEQ ID NO: 30) and amino acid sequence (SEQ ID NO: 120) of Gene 561.1 with the corresponding SNPs underlined.

Figures 28A-28C show the cDNA sequence (SEQ ID NO: 32) and amino acid sequence (SEQ ID NO: 121) of Gene 561.2 with the corresponding SNPs underlined. –

Please replace line 21 at page 49 with the following rewritten line:

-- NO: <u>6160</u> ), GLU-GLU, and DYKDDDDK (SEQ ID NO: <u>4688</u> ) (FLAG®) epitope tags. –

Please replace Table 2 on pages 128-137 with the following table:

### **TABLE 2: PRIMER PAIRS**

Marker name	Locus	DNA type	Gene	Forward primer	Seq ID	Reverse primer	Seq ID
B0610N03-A1.x		BACend		CAAGCGATAGTTCTAATTTTCT	4689	TATGTGTTGGAGCCAGAAAATT	4714
B0600D18-A2 x		BACend		TGGTGTTCTCTGAGCTTCCAGG	4690	ACCGAACCAAAGATCCTGGAAG	4715
B0611O14-A2 x		BACend		GTCTTGATTTTAAGGTTTGAGG	4691	CTGCCCTCACCTTGCCTCAAAC	4716
B0700A09-A2 x		BACend		GCTGCTTCCAGCATTTCAGCAT	4692	CAGTGTTATATGTGATGCTGAA	4717
B0716I10-A2 x		BACend		ATGATGCAGTGAGTGAGACCCA	4693	CTTACTCACTACACTGGGTCTC	4718
B1118B13-A2.x		BACend		GCACTGGGTCTTCTCATCTGCT	4694	ACTCTCGTGGATAGAGCAGATG	4719
B1128N10-A2.x		BACend		CACGAGAGTCTAGTGGGGGTTT	4695	TCACTTGGCAGATGAAACCCCC	4720
B0841C17-A2.x		BACend		TCCCCTGATATCCACTATCTTT	4696	CATTAGATGATGGTAAAGATAG	4721
B0904G06-A2.x		BACend		ACTGTCTCATTCTTTACAGAAA	4697	GGAACAGCAAACGTTTTCTGTA	4722
B0923J13-A2.x		BACend		CAGGTCTCTGCAGAGCATTTCT	4698	GACTCTTGTTAACGAGAAATGC	4723
B0675M15-A2.x		BACend		GCAGACAATATCAAGAGTTCTT	4699	CTGTAACACATCTCAAGAACTC	4724
B0600D18-A2 y		BACend		TCATCTGCCAAGTGAGCCCAGT	4700	GACCTCACCAAAGCACTGGGCT	4725
B0610N03-A2 y		BACend		GATACCAATGTGAAGTCCTTGA	4701	GTTTTCTTCCAGCCTCAAGGAC	4726
B0700A09-A2.y		BACend		TCTCGATCCCACTAACCACGAT	4702	ATGAAGTACATTGGATCGTGGT	4727
B1118B13-A2.y		BACend		ACTGGAATGCTCAGCTGGATGC	4703	TTCTCCAGGGTCAAGCATCCAG	4728
B1128N10-A2.y		BACend		TGCTGATCTCTCAGTTCACCCT	4704	GCAAGCCACCCATCAGGGTGAA	4729
B0904G06-A2 y		BACend		ATCTAATGCTGTGGCCGCTGCT	4705	GGTTTGTTTGCTGCAGCAGCGG	4730
B0923J13-A2.y		BACend		GACAGCCAGAGGAAACCTCTTC	<u>4706</u>	AAAAGTTGTCTTGGGAAGAGGT	4731
B0675M15-A2 y		BACend		CACCTCTGGCTTTCCTACAACC	4707	AGCTGTGACATGAAGGTTGTAG	4732
B0635H04-A1.x		BACend		AGCTTCGTCTGACCAGTCTACC	<u>4708</u>	TTCAGGAACCACCAGGTAGACT	4733
B0666B20-A1.x		BACend		TGCCTGTGACTGAAGTCTTGAT	4709	GAGTGAGTAAGGAAATCAAGAC	4734
B0696D03-A1.x		BACend		AGGAAGAACAGAAGCAGTCTTT	4710	GTCATTATTTCCTCAAAGACTG	4735
во700Н07-А1.х		BACend		TCCTGGGAAGCAAGAATAGGAA	<u>4711</u>	TCGCAGTGGCTTTGTTCCTATT	4736
B0726A20-A1.x		BACend		ACTGTTGTCACCTCTGGGAAAG	<u>4712</u>	AGTCTTCCAGGTCTCTTTCCCA	4737
B0761L21-A1.x		BACend		GAGTAAAAGAATGTGTATAGGG	4713	TTTTTGACCCACCCCCTATAC	4738
B0814G06-A1.x		BACend		CGAGGAAGATGTAAGAGACTGT	<u>4739</u>	ATTGAGGCCCCAGAACAGTCTC	4768
B0857A05-A1 x		BACend		TCTTTAGTCCTTTGGGAGAGCT	4740	ATTITCCCACAGGAAGCTCTCC	4769
B0895C23-A1.x		BACend		AGGTGCTACCTCGCTCAATCTG	<u>4741</u>	GGGCTGGTTGCTCACAGATTGA	<u>4770</u>
B0949E15-A1.x		BACend		CTITTGAAGACGTGGGTTCTGT	4742	GAATGCAAGCACTCACAGAACC	4771
B0604M16-A1.x		BACend		AGCCATAAACACACATTTCTAT	4743	GATGCTCTGTGCATATAGAAAT	4772

4835	GTTTTCCTGTGCAGGGAATATG	4806	TGCCATGTAACGTTCATATTCC	BACend	B0748H09-A1.x
4834	CCTTTCCGATGACCCCAGCAGT	4805	GGTAGCAGTCTTACACTGCTGG	BACend	B0723P10-A1.x
4833	TGCTCCTAGCTGAATATTTCAT	4804	GGCATGTAGATCAAATGAAATA	BACend	B1118L08-A1.x
4832	CCCTTCCTGGACAATTTCGTCC	4803	ATGCAAAGGTCTCAGGACGAAA	BACend	B0974M10-A1.x
4831	TGGAGTGCCCTGTTGTCCCTTG	4802	GGTAAGGACACCTTCAAGGGAC	BACend	B0909L16-A1.y
4830	CTCCAATCAGTTGCCAAGGCTT	4801	GTGGTAGAATTGGCAAGCCTTG	BACend	B0883G23-A1 y
4829	TTCCTGTGTAGATCCCCATGCC	4800	GATGTTGTCCGACAGGCATGGG	BACend	B0866B05-A1.y
4828	GTTACCCGGGAGTTATGTCCTG	4799	AGAAGCGGGGTGAGCAGGACAT	BACend	B0738O20-A1.y
4827	TGGCTAGAAGGAGGTGAGAGGC	4798	CATGGTCACCTGCAGCCTCTCA	BACend	B0702F18-A1 y
4826	TGGCCTCAAAGGCTCAAGGTCA	4797	TCATGGGGGTGCTTTGACCTTG	BACend	B0702C13-A1.y
<u>4796</u>	ACCCAGCTGAATCCTTCCTGAG	4767	TGTTGTGTCAGAAACTCAGGAA	BACend	B0696L08-A1.y
4795	AGGTGATCACAGACTGTGCATC	4766	CTCGCTCCATCTGCGATGCACA	BACend	В0663Н23-А1.у
4794	CGGGAAGCATTTGCAATGTGTT	4765	ATGCTGCTTCATATAACACATT	BACend	B0633K01-A1 y
4793	TGTCTTCCTCCCCTTAACATTT	4764	GTTTCAGCTGTGGAAAATGTTA	BACend	B0604M16-A1.y
4792	ATGGGCAAAGAATAGATAGTCA	4763	ACTAGCTATTGAAGTGACTATC	BACend	B0949E15-A1.y
<u>4791</u>	CTGGACCAGGAAATCCAGGTAG	4762	AGAACCAGGCAGAGCTACCTGG	BACend	B0931G12-A1.y
4790	CCCTGAATTTAGGTTACTGCTG	4761	CCATCCTTCATCCCCAGCAGTA	BACend	B0895C23-A1 y
4789	AATCAGGCCATGAGGGCAAAGG	4760	TGCTTATCAAGATGCCTTTGCC	BACend	B0857A05-A1 y
4788	TGACAGTTTCCTTTGATGCACT	4759	GCAGAGAGGTGGTGAGTGCATC	BACend	B0814G06-A1 y
4787	AAATTAGCCAGGCATGAGAAAG	4758	GCGAGGCCTGCTGTCTTCTCA	BACend	B0761L21-A1.y
4786	GGTCTTCTACTCCAGTCTCCTA	4757	TCAGTTCTCAGTCCTAGGAGAC	BACend	B0726A20-A1.y
4785	GGTTAGGATTAGTGTGAATGGA	4756	ACTCAAACCAACCTTCCATTCA	BACend	В0700Н07-А1 у
4784	AATGCCACGGTGCAGTGGCTAC	4755	ATCCTGCTTTGTGGGTAGCCAC	BACend	B0666B20-A1.y
4783	CTGTATGAATCCTCTGATGCCT	4754	AGTCACACCTTATGAGGCATCA	BACend	B0635H04-A1.y
4782	TACTTACACAGTTGCTTACACC	4753	AGATGCTTATACTTGGTGTAAG	BACend	B0598D10-A1.y
4781	GGAGCATCCAATCTTTGAAGGG	4752	AGCAGAAGAGCAGACCCTTCAA	BACend	B0866B05-A1.x
4780	AGGITCCTACTGAGCTATCAGG	4751	TGAAGTTCGGAATCCCTGATAG	BACend	B0738O20-A1 x
4779	CACCGTTATGCAGAAAGTCCCT	4750	TCGCAAATAGCACAAGGGACTT	BACend	B0728K24-A1.x
<u>4778</u>	AAGCTTTACTACCAGTAAGGAG	4749	CTCTGCATTTCTTACTCCTTAC	BACend	B0702F18-A1 x
4777	AGAGAGGAACAGCATCAAAGTC	4748	GTAGTAACAGAATGGACTTTGA	BACend	B0702C13-A1.x
4776	TITACAGTGTTTGCCTGTTCAC	4747	ATCTGTAGCCTATAGTGAACAG	BACend	B0696L08-A1 x
4775	CAGCCAATGAAGTCAAAACACA	4746	GAGGTCCCTATTGCTGTGTTTT	BACend	B0663H23-A1 x
4774	ACTGATGACATTTGATACCCAA	4745	GTTCAGATTTTATCTTGGGTAT	BACend	B0633K01-A1 x
4773	GGTATGAGAATTGTGGGTTTGG	4744	TCCACTGAGAGTTACCAAACCC	BACend	B0615D12-A1 x

4898	GTAAGTACTCCTCCTGAAAGCT	4869	TCATCAGTTCTAGGAGCTTTCA	BACend	B0714L01-A1.x
4897	GAACCTCAGTCCTGCACATTCG	4868	ATGAGTCTCTCCACCGAATGTG	BACend	B0604N13-A1.x
4896	TAATACCTGGCATGTAGCAAGT	4867	CACATTTCTGAGACACTTGCTA	BACend	B0895J20-A1.y
4895	GGGTCATGTGACTGAGTTCTGT	4866	CACATCGCTGCTTGACAGAACT	BACend	B0894M06-A1.y
4894	TTCCTCCATTCACGTCTCTACC	4865	ACAGAAAGGCCGTGGGTAGAGA	BACend	B1134M23-A1.y
4893	TCGAAACAGCTGCCTTCTGTAG	4864	AGGCCGGTTTCTTACTACAGAA	BACend	B1093F08-A1 y
4892	ATCAGAGGTCTGTAAGTCAACA	4863	CCACCAAATGGATCTGTTGACT	BACend	B1052D15-A1.y
4891	GAATACAGGGATGGGACTAGAT	4862	CCACTCAACCCACAATCTAGTC	BACend	B0839D11-A1.y
4890	TAGCAAGTCTTATCGACACAGT	4861	AAGAGAAGTCGGAGACTGTGTC	BACend	B1000B21-A1 y
4889	CACGACTTAGGAGGAGATCTTC	4860	ACATGGGCTCACAGGAAGATCT	BACend	B0588P16-A1.y
4888	CCGTCTGTGTCCAGAACGGTAA	4859	ACATGATGCACCCCTTACCGTT	BACend	B0668P23-A1.y
4887	CTGCTTCTAGAACAACTCATGA	4858	CAGTGGTCCCTCTCATGAGT	BACend	B0961F22-A1 y
4886	GGAACTGGATGTAAAGTCATGA	4857	ACAGACACCTTGGGTCATGACT	BACend	B0895J20-A1.x
4885	TGGGTACATGCACTGTGCCCAT	4856	TCTTTCATCTCCTAATGGGCAC	BACend	B0894M06-A1 x
4884	GCTCGTTAAGAGTTCCTTTGCC	4855	GAATGGGGAAAAGGGCAAAGG	BACend	B1134M23-A1.x
4854	CCCTGGCGTTGCAGGAATTCTT	4825	TGCTGCAACTGCCAAAGAATTC	BACend	B1093F08-A1.x
4853	GCACTGTTTTATAACTGGATTG	4824	CAGAAGCATAGAAACAATCCAG	BACend	B1052D15-A1 x
4852	AGATGACCTATTGCCAGGTAAA	4823	GACAACTTGCTTCCTTTACCTG	BACend	B0839D11-A1.x
4851	TAGCCTGTCAGAAGCTGATCAC	4822	TATTACAGAGGCTGGTGATCAG	BACend	B1000B21-A1.x
4850	ACCCATGTGTGTCAGCTCTTGG	4821	AAGAAGGACCTCAACCAAGAGC	BACend	B0588P16-A1.x
4849	GGTCACTGCAGGAAAGTTCAGA	4820	CATCCTGCCTCGGGTCTGAACT	BACend	B0961F22-A1.x
4848	GATGAGTAGATCCCACAAAACT	4819	TGTGGGATGCTTCCAGTTTTGT	BACend	B0956I11-A1.y
4847	CATCTGGATTAGCTGGAGCTCT	4818	TGCCTTTCTTCCTTAGAGCTCC	BACend	B0894N08-A1 y
4846	TCCAGAGCCAACTGTCTTCTCT	4817	GAGTGCTCACCGGAAGAGAAGA	BACend	B0845N16-A1.y
4845	CACAGTCAGAGTTGGCGCCATT	4816	CAATAATTAGTTCCAATGGCGC	BACend	B0825K21-A1.y
4844	TTCCGGGTTTGATGTGCAATTG	4815	GCCTGCACAGGACACAATTGCA	BACend	В0748Н09-А1 у
4843	GTTTGCCTCATGCTTAATAGTC	4814	TGTACCAAACTGTTGACTATTA	BACend	B0723P10-A1 y
4842	ACTGGACCCAGCAACTGATGGC	4813	CTCCATAGGAAGCAGCCATCAG	BACend	B0646E20-A1.y
4841	AAGCACGTGTTGAACAGAGTGT	4812	CTCATAGTTGTTACACACTCTG	BACend	B0974M10-A1.y
4840	ATTCCATCTGACAGCTTTGCCA	4811	TGAATTTTAACAGGTGGCAAAG	BACend	B0956I11-A1.x
4839	CTGGACATTGAATAAAGACAGC	4810	ACGTGGAGAAGGCCGCTGTCTT	BACend	B0894N08-A1.x
4838	CAATTCACAGGCACTTTCTACG	4809	ACATATGAAAAGACCGTAGAAA	BACend	B0845N16-A1.x
4837	TCCCTGTCTTTGAAGTGTGGTT	4808	CGTGAGCCCATTTCAACCACAC	BACend	B0825K21-A1.x
4836	TTGTGGCTCAAATCACTGTTAC	4807	ATACCCACAGGGTAGTAACAGT	BACend	B0825F09-A1.x

<u>4961</u>	TAGGTGAGTCTCTTGAAGGCAG	4932	CAACCAACTATCTGCTGCCTTC	BACend	B0663J16-A1 x
4960	CACTGGGTACTTCTTATTCTTT	<u>4931</u>	CCTGCCTGATGAGCAAAGAATA	BACend	B1104N09-A1 x
<u>4959</u>		<u>4930</u>	CTAGAATTTCCATGTAGTAAGA	BACend	B1076C21-A1.x
4958	CGAAATGCCGACTGCCTGTCAC	4929	CAGCTAGGGGAAGAGTGACAGG	BACend	B1029H23-A1.x
4957	AATCAGCAGGTACATAGATAGA	4928	CATATGGCTAAGGCTCTATCTA	BACend	B1020H18-A1.x
<u>4956</u>	CCCGCTTGCTTTTGGTGTCCAT	4927	GACATTCCATGCAAATGGACAC	BACend	B0979G13-A1.x
4955	ATTTAACACAAAGGCAGGGGGT	4926	GGATTAATAGTACCACCCCCTG	BACend	B0781118-A1 x
4954	ACCTTCCAACCATCACCCTCCT	4925	GATTAAGAGAGGGTAGGAGGGT	BACend	B0923H14-A1 x
4953	CTGAGTTTCCTCACTAGAATGT	4924	ACATTCCCAGCTCTACATTCTA	BACend	B0883G19-A1.y
4952	AATCAGAGTTTCCTTCAGAGCC	4923	GTGTCCTGGTGAACGGCTCTGA	BACend	B0666F01-A1.y
<u>4951</u>	TITAAAATTCCACTTGCTATGC	4922	ATGGGTATCACTATGCATAGCA	BACend	B0756E08-A1 y
4950	GAAGAAAACAGGAGAGTTGCAA	4921	CATGATCTCAATAATTGCAACT	BACend	B1020H18-A1.y
4949	ATTAAGTTCCTTGAAAGTTGAC	4920	CTCCACCTGGATGGGTCAACTT	BACend	B0979G13-A1 y
4948	CCGTCCATGGGAACACTGTCAG	<u>4919</u>	GCAGCCTTACTGAGCTGACAGT	BACend	B0923H14-A1 y
4947	GAGGCAAGGTCTTTCATGAAAT	4918	GAGCCCTGCTCAGAATTTCATG	BACend	B1008L21-A1 y
<u>4946</u>	CTTAGGACAACCCCCTGGGAGAA	4917	CCCTCTATAACATTTTCTCCCA	BACend	B0909E24-A1 y
4945	AAGGATACCCTCTCTCACTACT	4916	CTATGTTGCATAGGAGTAGTGA	BACend	B0880M22-A1 y
4944	CTCCTTCTTCCCGAGTTTCCTC	4915	CATTAGAAGCCCAGGAGGAAAC	BACend	B0791C09-A1.y
4943	TGGCTGTAAGTGAAAACGGAAG	4914	TITCAGTGACTGCTCTTCCGTT	BACend	B0687F10-A1 y
4942	TGGGAGACTGAGACCAGAGGAT	4913	CITGGACTCAAGACATCCTCTG	BACend	в0700Н07-А2 х
4912	GTTAAAGCAGTTATGAGCCCAA	4883	AGATAATGGGTTGCTTGGGCTC	BACend	B1043N20-A1 x
4911	CTCAAATCCCCCTCCCACTGTAG	4882	ATCTCTGGGAAGCTCTACAGTG	BACend	B1008L21-A1 x
4910	TGTGTGTTTTGAGTTAGTAGCC	4881	TGTTTGGATATGGTGGCTACTA	BACend	B0880M22-A1 x
4909	GGGGCGATGGGAATATGAAATT	4880	GGACCCACCCTGTCAATTTCAT	BACend	B0820N16-A1.x
4908	AAAGCTTCCTGGGGTATCCCTA	4879	ACTGTGGCTGCACATAGGGATA	BACend	B0791C09-A1.x
<u>4907</u>	ACGTGAATCACGGAACATAGAA	4878	TCTCTCAAGCCACTTTCTATGT	BACend	B0687F10-A1 x
4906	GTGCTTCTAACTTCTCCTGCTG	4877	GCTTGAACTGCACTCAGCAGGA	BACend	B1128L12-A1.y
4905	ATGTGACTGAGTTCTGTCAAGC	4876	TTGTTCACATCGCTGCTTGACA	BACend	B0894M06-A1.y
4904	CTGAGCCACACCTTCTGAAACT	4875	ATCCTGGGCAAGGGAGTTTCAG	BACend	B0754A14-A1 y
4903	GAATACTGCAGAAGCAGAAGCA	4874	GGCATTCTTGCTGCTTCTG	BACend	B0714L01-A1.y
4902	CCTTTCCAGTTTGAATTCCACC	4873	GTGGATTAAACCGAGGTGGAAT	BACend	B0643F18-A1.y
4901	TGAGCACAGGAGTTCCTGATGC	4872	TTGGTGTGAATCAAGCATCAGG	BACend	B1128L12-A1.x
4900	TGGTGCAGGATTGTTGTCCTCT	4871	GATTAGTGTATGGTAGAGGACA	BACend	B0894M06-A1.x
4899	TGCAAGGCGATATGATGAAGAG	4870	GGATCGCACAGTCACTCTTCAT	BACend	B0754A14-A1 x

5024	TGTCCCACCTTTCCTTCAAGGT	4995	GACTCATATGACAGACCTTGAA	EST	WI-12272
5023	CTTGTTCGTTGCTGGCAGATGG	4994	AAGTCAATTGCTCCCCATCTGC	EST	SGC34088
5022	CTCAT	<u>4993</u>	CTT	EST	stSG3292
5021	TGTCTAAGCCTCATGTACCGAT	<u>4992</u>	AAGTCTGACTTCAAATCGGTAC	EST	Cda0ca07
5020	GGCCTGCAGTGGATGATTGTGG	4991	AAAGGCCACACAGCCCACAATC	EST	Cda0af01
<u>5019</u>	CTGAAATCGAGTGAGTGAAGTA	4990	TCTCTACCAGGCAATACTTCAC	EST	sts-N20163
<u>5018</u>	CTCCTTCCCACAGCACTGCTCT	4989	GATGCAAGCAGCACAGAGCAGT	EST	SGC30248
<u>5017</u>	CGAAAGCTTGAATCTGTTCCTC	4988	CAGGGTCATTCGAGGAGGAACA	EST	A006D44
<u>5016</u>	CTTATGTTGGGATTGATGATGG	4987	TGTTCTGGCAGATTCCATCATC	EST	A007A34
5015	TAGGGGACATCCCTCAAGCATT	4986	GGCACACAGTCTGCAATGCTTG	EST	stSG30525
5014	GTANTCTGTGGCCGCCATCTGC	4985	TACCACCACCCTGCGCAGATGG	EST	stSG15434
5013	TGGCCCTAGGCACACATAAGGT	4984	CAGCCAGCTACTGAACCTTATG	EST	stSG9807
<u>5012</u>	AGCTGGAGCACCTGGAGAAGCA	4983	TGAGCAGTCTGACCTGCTTCTC	EST	stSG36097
5011	ACCATGGACAGGCCTTCGAGTC	4982	CACCAGAGACCAGAGACTCGAA	EST	stSG22703
5010	TCACCT	4981	GGGAGCTACAGGTGATAGCTAT	EST	WI-13120
5009	CAGCCCCCTATGACCACAATGG	4980	ATGCATACAGCAGGCCATTGTG	EST	stSG21539
5008	CACAGAGAGTGCATTTTCTCTCCA	4979	AACCAGACAGCATCTCTGGAGAGA	EST	WI-12422
5007	GAGTGAAAGGTGGAACCGGAGA	4978	AGGTGGTGATCTAGTCTCCGGT	EST	SGC31333
5006	TGTCATCAGCACCCCTAAGTCA	4977	GGAAACCCGTGACTTGACTTAG	EST	A004F14
5005	GCAATCTCCAATCCTTACCAGG	4976	GATGCCAGGAAGTACCTGGTAA	EST	sts-AA017225
5004	TGCCCAATCTGTACCACCTGTC	4975	GAGACGTGAGTCAGGACAGGTG	BACend	B1056C02-A2 y
<u>5003</u>	CCAATTCTCCTTTCAGATGGCA	4974	CCACACAGGAAAACTGCCATCT	BACend	B1056C02-A2.x
5002	GCTGTGGGAAATGTGAGCTGTG	4973	CACAAAGACAGACCCACAGCTC	BACend	B0768I12-A2 x
<u>5001</u>	TTTGGCAGAATGTTTCAAGAGT	4972	CGCCGAATTCCATGACTCTTGA	BACend	B0598O21-A2.x
5000	тистестесствесстиете	4971	GAAACCCACATCAGCACAAAGG	BACend	B0880L16-A2 x
4970	CTCCATTATCAGTCACTCCTCA	4941	AGTGTTAGTGGGAATGAGGAGT	BACend	B0997I04-A1.y
4969	TATCTGCGTGGTGGTTCCCTTC	4940	AGGAAAGGGAAATAGAAGGGAA	BACend	B0723P10-A1.x
4968	AAGTGATATGAGACATACAGGA	4939	TACTITACTCTGTTTCCTGTAT	BACend	B0997I04-A1 x
4967	ATGGCTTCAGTTTTACTGTGAG	4938	TCTAAAGATGGGGCCTCACAGT	BACend	B1095L07-A1 x
4966	AACAGTTTGGTACATGCAACCT	4937	TGGAAGCCACTTAGAGGTTGCA	BACend	B0723P10-A1 y
4965	ATGCGTGCTGGTGTTTAACAGT	4936	GTGAACAGGCTAACACTGTTAA	BACend	B0785D22-A1.x
4964	GTTCAAATCTTGCAAGCATGCC	4935	GCTCTCATGATTTGGGCATGCT	BACend	B0760A04-A2.x
4963	ATAATCCAGGAAGATCACTCTA	4934	CATGGCACAGGTGATAGAGTGA	BACend	B0883G19-A1.x
4962	TAATATAAAATCCTTAGAGTCC	4933	GGTGTGGAGAGAGTGGACTCTA	BACend	B0656F13-A1 x

5114	ACCTAGTATCCTACCTCAAAGCGT	5087	CTCAATCCACATGACAACGCTTTG	EST		sts-R02295
5086	CTTCCTGTGGTAGTGTCTTTCAGG	5057	GCTAGTGGAACGGATACCTGAAAG	EST		sts-R55615
<u>5085</u>	TGCCCACATGGAGAAACATGGTCT	<u>5056</u>	TCTTCTCTCTCACTGCAGACCATG	EST		STSG40222
5084	TCCGACAATGCCAGGAGGCTTCAT	5055	ACAGACTACAACGTCAATGAAGCC	EST	D12S1205E	CDA18G06
5083	AGCAGACAAGATCTAGATCCCAGA	5054	GCATGTGTTGTTCTGTCTGGGAT	EST		A005X42
5082	GCTGGAAGCAGAAAGAAAGGC	5053	GTGCCCTGTGAAATTGGCCTTTCT	EST		stSG8142
<u>5081</u>	AGCAGACAAGATCTAGATCCCAGA	5052	GCATGTGTTGTTCTGTCTGGGAT	EST		stSG4731
5080	ACAGTCCATGGAAAGGCAGCAAGA	<u>5051</u>	CAAACACAAGAGGTCCTCTTGCTG	EST		stSG8935
<u>5079</u>	TGACACCTGCCTCATGGTGGTAGA	5050	GGAAGGCTGTCTTCTTCTACCAC	EST		stSG40199
<u>5078</u>		5049	GTGCCCTGTGAAATTGGCCTTTCT	EST		A004B47
5077	CAAGA	5048	CAAACACAAGAGGTCCTCTTGCTG	EST		SGC34278
<u>5076</u>	TTTTCTCCTCCCACCTCTGGTATC	5047	GGTTTGAACAGTGGGAGATACCAG	EST		A006R19
<u>5075</u>	<b>,</b>	5046	CTCTAAGAACCAGACCCTCAGTTG	EST		sts-H94865
5074	CCAGTITCTCCACATCCTTAGCAG	5045	TCATACCAAGTGCTGGCTGCTAAG	EST		R50113
5073	AACTCTGGCAGACACTGTCAAAGC	5044	TAAAGATAAGGCGTGGGCTTTGAC	EST		A008Y05
<u>5072</u>		5043	TAAAGGCAAAGGCCACACAGCCCA	EST	D12S1405	WI-6385
<u>5071</u>	пстс	5042	CAAAGCACTGGACTGAGAGAATTC	EST		stSG31443
5070		5041	AAGCTGCTCTTCTCAGCTACTCTG	EST		sts-AA001424
<u>5069</u>		5040	TCGAGAAAGGCTGTTCCTACAAGG	EST		stSG4720
5068	CCAGACTTTCCTCACTCGGATTTG	5039	CAGCACATCGAGTCCTCAAATCCG	EST		AA252357
<u>5067</u>	CGTCCAGAAAACGTAGGTTGTGTC	5038	GAAAAACCCGCACCCTGACACAAC	EST		FB9F8
5066		5037	TTCTCGAGGGTTCTCTGCTTCACT	EST		stSG42115
5065		5036	AGACTGCATCCTTCGAACAACAGG	EST		sts-N59820
5064		5035	ACAGCTCTCCTTAATGCC	EST		SGC30786
5063	CTGCGTGTCTGTCAGGGGAACC	5034	GAGTTACAGGAAGTGGTTCCCC	EST		stSG26056
5062	TGTCCCGCCAAATTCACGTCCA	5033	TCTAAGGTTCCGGATGGACGTG	EST		stSG30906
5061	CACCTGCAGGAATAACTATGGT	5032	GCCTTGCTAACTGTACCATAGT	EST		stSG3357
5060	ACTGAGCTCCTTTCACTCTCCT	5031	AATCTGAGGCACACAGGAGAGT	EST		H64839
5059	70	5030	CCCGAGGCTTCTCTGAACACTA	EST		A006O16
5058	TAACTCCTAGCAGCTGGAATCT	5029	ACCTGAGAGCAGGGAGATTCCA	EST		stSG9546
5028	TGATGAGACTGCAGAGGAAGTC	4999	TGCTTGGCCAAACAGACTTCCT	EST		Wi-18492
5027	GCTCCTTCATTCTCCCCCAGAG	4998	AGTGACAATTAGAGCTCTGGGG	EST		WI-15018
5026	TTGTTACTGTACGTGTATCTGG	4997	CAAACGGAGAAGCCCCAGATAC	EST		SGC31722
5025	TGCCCAAATTCCTGTCTAAGGG	4996	CATGACTCCCAGACCCCTTAGA	EST		stSG16387

5175	AGTTGAGTGACGCTGTGGTGTGAG	5146	AGTGAGCTCAGAACACCTCACACC	GCP170	Gene	CDA1JF08
5174	TGAGGTTCTGAGTCACTGGCCA	5145	GAGCACATCTGGCCTGGCCAGT	GCP170	Gene	stSG27206
<u>5173</u>	GGATAAGCTTGTGTGGTTCTGCCA	5144	TGGTTCTCTGCTTCACTGGCAGAA	CAGH32	Gene	A002A44
5172	TAGTGAACCTTGGGACCATGTCAC	5143	GTGCTGAATCTCTTGCGTGACATG	CAGH32	Gene	stSG39493
5171	AAGAAAATCCCCGTGACTTCTTCC	5142	GCCATCAAGGTGATGAGGAAGAAG	ULK1	Gene	IB2452
<u>5170</u>		5141	TCAGGCACCAAATCTGAACAAGGG	CAGH32	Gene	stSG1702
5140		5113	CCTTCAGGCATCCCACAGATGA	RAN	Gene	WI-16177
5139	AGGGTGGTGTATTCTGTCATT	5112	GAACGACGTGTGTAAATGACAG	SMRT	Gene	sts-D60472
5138	AACCATACTTCCACCTTGGGTG	5111	GTTGCAAGTGTTCTCACCCAAG	RNP24	Gene	WI-6921
5137		5110	GTGAATGTGGAAAAGCCTTCAC	KOX20	Gene	ZNF26
<u>5136</u>	GTAAGGTTTGAGCCACTACCAA	5109	ATGTGGGAAGGCCTTTGGTAGT	KOX 1	Gene	ZNF10
5135	ATCCCTCCTGATCAGCAGAGGT	5108	CCCAGCAAAGATCAACCTCTGC	UBA52	Gene	sts-W31616
<u>5134</u>	TCCTCCAGCCTAAACTGACATC	5107	TCAGTCCATAGGATGATGTCAG	CLA-1	Gene	stSG1936
5133		5106	AGAGCGGCTCTTTTAATGAGGG	NOS1	Gene	SGC31491
5132	GAGAGAGTCCATTGAGGGGTTC	5105	TGATCCTCACTGTGGAACCCCCT	DEZ	Gene	sts-U79526
<u>5131</u>	CCCATGAGTTGTTAGTGGTGAAGA	5104	GGACACATCTGTTCCATCTTCACC		EST	stSG46424
<u>5130</u>	GCTGGGTAACTAGAAGTGCAGGAT	5103	GGAGGTGAATAAGCTGATCCTGCA		EST	stSG60065
<u>5129</u>	GGAAG	5102	CTGAGTTCCTTAGCAGCTTCCGTA		EST	stSG47723
<u>5128</u>		5101	AAGTCAATTGCTCCCCATCTGCCA		EST	WIAF-856
5127	CCAGTGAAATAAGCCCCCTTCGTGA	5100	AACTGGAGTCAGGTGATCACGAAG		EST	stSG52343
<u>5126</u>	CTGGGGGAAATGCTGACTGATCTG	5099	CGGCACAAGCAGATTTCAGATCAG		EST	stSG54325
5125		5098	CCACTGGCTGCATTTTCCAGCTTT		EST	stSG63473
5124	CACTGCCAGTCAGCAACCTGGTTA	5097	GAGGCTAGGCTGAATATAACCAGG		EST	stSG53307
5123	CACTAC	5096		Homo sapiens hiwi mRNA, partial cds	EST	stSG53541
<u>5122</u>	AAGTCTTGGGGAACTCCACGTGTT	<u>5095</u>	AACTGGGATGCCAACTAACACGTG	Highly similar to peptide transporter PTR2	EST	stSG53600
5121	TCACGGCCTACGAGATCTTTGAGC	5094	TTCTTCTTCAGGTCCCGCTCAAAG		EST	stSG54842
<u>5120</u>	GTTTACAGCCTACAGGACGTACAC	5093	CCAGCAGCAGGATATTGTGTACGT		EST	stSG48386
<u>5119</u>	CACCAATGGCATAGCACAGTGTGT	5092	CCGTATTACCCAGACTACACACTG		EST	stSG50504
5118	TGCAGTAATGGATGGGTGGTTGGA	5091	TTTGTTGGTCAGCTGGTCCAACCA	highly similar to 22 kd peroxisomal membrane protein	EST	stSG54813
5117	CGGAAAGGAAACATCTGTTTACCG	5090	AGATGGGGGAGACAAACGGTAAAC		EST	stSG52716
<u>5116</u>	AAGTATGTGCTAACTTGTTGAGGA	5089	AATAGATTGATTGCCGTCCTCAAC		EST	sts-H65839
5115	TCACTTCCCTTACAGTCATACATG	5088	GGCAAAAGGGAAAAACCATGTATG		EST	sts-R81342

5224	TGGAGAATTGGAAGCCTTGTGCA	5209	TACATTCCACCAGCAGTGCACAAG		MSAT	D12S2342	12QTEL82
5223	TCTATCTGTCATCCCTCTATCG	5208	GTATGGATAGCAGACGATAGAG		MSAT	D12S392	GATA13D05
5222	GAATGGCATTTGGTAACCAACT	5207	TGCCAGGAGTTTTAAGTTGGTT		MSAT	D12S1638	AFMb002vd5
5221	AGCCCCGCTGGACCTCCTGTTG	5206	AAGGTAGAGCTTGGCAACAGGA		MSAT	D12S1628	AFMa275xb9
5220	GAĞAAĞCTĞCAACGCATTCTTT	5205	GTGGTTGGGTTAACAAAGAATG		MSAT	D12S63	509/510
<u>5219</u>	GGAT/	5204	TACTGCCACTCTCCAGAATATC		MSAT	D12S343	AFM295ye9
5218	CCTTCACTGAGGAGTTCGAGCC	5203	AATTGTCTCCATGGGGCTCGAA		MSAT	D12S97	AFM210zd6
5217	TTAGAGATGGGGTCTCACTATG	5202	GACCAGCCTAGGCACATAGTGA		MSAT	D12S1045	ATA29A06
5216	CTTGAGTCCAAGAGTTCAAGAC	5201	TGTTGCCTAGGCTGGTCTTGAA	-	MSAT	D12S2069	CHLC ATA19A06
5215	TGTAGCATATGATGTAGACACC	5200	GTTCGAGATCCACAGGTGTCTA		MSAT	D12S1714	AFMa064xg9
5214	CACTGTGCTTTCAGAAGCAGGC	5199	TCTAACITTCGTTTGCCTGCTT		MSAT	D12S1659	AFMb301we5
5198	ATTGGATAGGCATAGGTCAACT	5169	GTCCAAGAGTGGGCAGTTGACC		MSAT	D12S834	UT7009
5197	CCCTCTACCATTCACAGAGGCA	5168	GITTGTAGGCTTCTTGCCTCTG		MSAT	D12S1679	AFMb350zb5
5196	GTCATCGGGTGACATACATTGA	5167	GGGGATTTAGTAGNTCAATGTA		MSAT	D12S1609	AFMa197zd9
5195	GTCTCTAGGCACATTGCTCCCT	5166	GATCTGCAGCATTGAGGGAGCA		MSAT	D12S1675	AFMb337xc1
5194	ACCTITTAGGACTCTTTGAGCA	5165	CCATGTTGTGAGGATGCTCAAA		Genomic	D12S1998	WI-3549_a
5193	CCGCTCACTCACTCTGCAGGAA	5164	CAAGTGTCCCACTTTTCCTGCA	- 1	Genomic	D12S1853	SHGC-14238_a
5192	CACCITGITCGTCTCTGTTGTCAG	5163	AGTCAGGTACAGGGTTCTGACAAC		Genomic	D12S1851	SHGC-13782
<u>5191</u>		5162	CAAGCTTCCCTCCTTTCCCATTGT		Genomic	D12S1845	SHGC-12243
5190	ATAAGAGCTGAGATAACAGCCA	5161	AGCAGCACTAGGCATGGCTGTT		Genomic	D12S1322	WI-6077
5189	GGACTCTTTGAGCATCCTCACAAC	5160	GAGAATCAGCTGCCATGTTGTGAG		Genomic	D12S1998	WI-3549
5188		5159	CTTAAGCGAGCAACCTGATAACCC	**	Genomic	d12S1420	WI-3045
5187	CTGTTCAACAGTGCCTTCACTG	5158	ACAACAGAAGTTGTCAGTGAAG		Genomic	D12S1084	WI-2002
5186	TCAGGCAATAGAGAAGGTCAGT	5157	CTGGATTTCCAGAGACTGACCT		Genomic	D12S1944	WI-10803
5185	CAGGATTTGTGTGGTGACCAGG	5156	CATTTACCTGCCCGCCTGGTCA		Genomic	D12S2002	WI-5824
5184	AGGACCCAGTTGAAGCCTGGTG	5155	CAGCTCAGGAAGTTCACCAGGC		Genomic	D12S2447	P313C9/SP6
5183	CAGTTAGATAAAAGCTATGGAC	5154	TCTCAGGAACCAGAGTCCATAG		Genomic	D12S2451	P493P14/T7
5182	GTCACATTTTTGGGGGTGAGAGAGG	5153	AGAAAGCCTCTCTTCCCCTCTCTC		Genomic	D12S2479	P699K7.T7
5181		5152		SFRS8	Gene		stSG43910
5180	TGCTGCATGGCTGTGATGGCCT	5151	AGAGGAGCTGTCTAAGGCCATC	MMP17	Gene		sts-X89576
<u>5179</u>	ATTGGAAAGAAAGCCTTTGGGA	5150	CCTAGTAGCTTTCCTCCCAAAG	NOS1	Gene		SGC31491_a
5178	GGGT	5149	ATCCACCGCTAGAAACCCACTC	MUC8	Gene		TH_a
5177	Ď	5148	1CTCCAGTATGAGTCCTCTGGTGT	ZNF140	Gene		stSG31494
5176	CCCACAAAAGATCCCAGGACTTCT	5147	ACTTCTGCAGTCATCGAGAAGTCC	GCP170	Gene		R39599

5228	GGGTTAATACAGTTAACCCAGA	5213	CTGTATTAAATGAGTCTGGGTT	MSAT	D12S367	AFMa123xe1
5227	CCCTTCTCAGTCCTTTCCTGGA	5212	TGGGAAGAGTTGCCTCCAGGAA	MSAT	D12S1599	AFM156xc5_a
<u>5226</u>	TCTGCAGTGGTTCCCTACTGAC	<u>5211</u>	CTTCCGTCATGAATGTCAGTAG	MSAT	D12S1723	AFMa082ze9_a
5225	ACAGGCATTAGCCCCTGTACCCAA	5210	TIGTTAGGCTTCTGGGTTGGGTAC 5210	MSAT	D12S2343	12QTEL87

Please replace lines 7-8 at page 144 with the following rewritten lines:

-- SEQ ID NO: <u>5229</u> ) and pBAC 3'-1 (CGA CAT TTA GGT GAC ACT; SEQ ID NO: <u>5230</u> ). --

Please replace lines 30-31 at page 145 with the following rewritten lines:

-- adapters (5' GTCTTCACCACGGGG (SEQ ID NO: <u>5231</u> ) and 5' GTGGTGAAGAC (SEQ ID NO: <u>5232</u> ) in 100-1000 fold molar excess. These --

Please replace Table 5 on page 162 with the following table:

## TABLE 5: PAIRED LINKERS

OLIGO 11	OLIGO 9	OLIGO 5	Paired linkers OLIGO 3 OLIGO 4
OLIGO 12	OLIGO 10	OLIGO 6	
5'GAA TCC GAA TTC CTG GTC AGC3'	5'CCT ACG GAA TTC TCA CTC AGC3'	5'TGT ATG CGA ATT CGC TGC GCG3'	Sequence 5'CTC GAG AAT TCT GGA TCC TC3' 5'TTG AGG ATC CAG AAT TCT CGA G3'
5'TTG CTG ACC AGG AAT TCG GAT TC3'	5'TTG CTG AGT GAG AAT TCC GTA GG3'	5'TTC GCG CAG CGA ATT CGC ATA CA3'	
<u>5239</u>	<u>5237</u>	<u>5235</u>	SEQ ID NO: 5233
<u>5240</u>	<u>5238</u>	<u>5236</u>	5234
Lung fibroblasts (dT+rp) Th0/stimulated/ TPA (dT+rp) Small airway epithelium cells (dT+rp)	Brain (dT+rp) Th0/unstimulated (dT+rp) Pulmonary artery smooth muscle cells (dT+rp)	Normal Lung (dT+rp) Athmatic lung (dT+rp) Th2/stimulated/TPA (dT+rp) Bronchial smooth muscle cells (dT+rp)	Cell/Tissue Type Th2/unstimulated (dT+rp) Th0/stimulated/anti CD3 (dT+rp) Pulmonary artery endothelium cells (dT+rp) Lung microvascular Endothelial cells (dT+rp) Bronchial epithelium cells (dT+rp)

Please replace Table 7 on page 165 with the following table:

# TABLE 7: MODIFIED OLIGONUCLEOTIDES

OLIGO 11 <u>5</u> 2	OLIGO 9 <u>5</u> 2	OLIGO 5 <u>5</u> 2	OLIGO 3 52	Oligonucleotides	Modified
5244	5243	5242	5241	ID NC	SEQ
5' CUA CUA CUA CUA GAA TCC GAA TTC CTG GTC AGC 3'	5' CUA CUA CUA CUA CCT ACG GAA TTC TCA CTC AGC 3'	5' CUA CUA CUACUATGT ATG CGA ATT CGC TGC GCG 3'	5' CUA CUA CUA CUA CTC GAG AAT TCT GGA TCC TC 3'	Sequence	

Please replace Table 8 on pages 170-176 with the following table:

### **TABLE 8: SSCP PRIMERS**

GGTTTTCTCCGGCTCTTCTT	<u>5333</u>	CTCTGTGCTGTACACCGTGC	5300	1784 757 A F 1785 757 A R	A	757
CCATGTTGAGGCGTTCGTAA	<u>5332</u>	TCTGCTACGTGGGCAGCAT	5299	1782 757 A_F_1783_757_A_R	>	757
GTAGCAGGCCAGGGGAAT	<u>5331</u>	CTGTGGTGGGTGGTCCTC	5298	1760_757_A_F_1761_757_A_R	➤	757
GTGAGGACCACCACCAC	<u>5330</u>	CGTGCTCACCTTCCTCATC	5297	1758_757_A_F_1759_757_A_R	Þ	757
GAAGGTGAGCACGGTGAAG	<u>5296</u>	AACTACCTGTGCATGGAGGC	5270	1780_757_A_F_1781_757_A_R	Þ	757
GTCCTTCAGCGGGTGCTC	<u>5295</u>	TGCACCGAGCAGGTCTCTAC	5269	1778_757_A_F_1779_757_A_R	➤	757
ATAATCGGGGAGCACTTGAG	5294	GCAAGGACATCGGCTACAA	5268	1752_757_A_F_1753_757_A_R	Α	757
CAGGTTGGGCATACGAGTCA	<u>5293</u>	GAGCAGGGGTGGAGAGCC	5267	1750_757_A_F_1751_757_A_R	Þ	757
GGAAAAGATGATCACGTGGAA	<u>5292</u>	GCAGTCATTGGAGGAGCTTG	5266	1969_454_AA_F_1970_454_AA_R	ξ.	454
CCCTCCCAGTAACTGCAAAA	<u>5291</u>	GGGGAAAAGGGAGAATTCTAAA	5265	1967_454_AA_F_1968_454_AA_R	Ą	454
GTGTTCAGAGGATGGGCATT	<u>5290</u>	GGGGAGATCTTCATTTACCCA	5264	1965_454_AA_F_1966_454_AA_R	\$	454
ACAACCCTTTATTCAGCCCC	<u>5289</u>	CCTGGTGATCTTTGGCTGAT	<u>5263</u>	1963_454_AA_F_1964_454_AA_R	ξ	454
TACTCTCCACCCTCCTCTGC	<u>5288</u>	CCTGTTTTGCTTTGAGTCCA	5262		\$	454
CCGAGGAAAGTGGAGTTGAG	<u>5287</u>	GAAATATTCCAATTTTGCCTGG	<u>5261</u>	1959_454_AA_F_1960_454_AA_R	\$	454
ACAGACAGGATTTCGCCTTG	<u>5286</u>	CCAGGACATGGCTGACTTTG	5260	4 85_454_O_F_86_454_O_R	04	454
ACTGCCCTTCACTCTTTGGA	<u>5285</u>	CACCACCTCAGAGCTGTTCA	5259	3 83_454_O_F_84_454_O_R	03	454
AGGTGGCGTAGCACCTGTAG	5284	GGTGCCAGTGTGGAAGATG	5258	2 81_454_O_F_82_454_O_R	02	454
CTGTGGCTCTCAGGGAGTTG	<u>5283</u>	CCTAGAACCTGAGGGCTTGTC	5257	1 79_454_O_F_80_454_O_R	01	454
CTTTGTTAAAATCCATCAGTTTTG	5282	TGATAATTCTGTACAAAAATGGGTAA	5256	77_454_N_F_78_454_N_R	z	454
GGAATCTCTCCGTGTCTTGG	<u>5281</u>	CAGCGCTTGTCTGCATTCT	5255	75_454_M_F_76_454_M_R	3	454
TGTCGATGAGGAAGTCGATG	5280	AACCAACAATTGCACGTTGA	5254	73_454_L_F_74_454_L_R	_	454
AGGCTGAGACCAAAACCCCTT	<u>5279</u>	CCAGAACCCAGCACTTTCA	<u>5253</u>	71_454_K_F_72_454_K_R	7	454
GTGAGTTTGACCTGGGCCT	<u>5278</u>	CTGGCTATGCAGGGAGATGT	5252	69_454_H_F_70_454_H_R	I	454
TCCCAGTGTACAAAGCACCA	5277	ATGGAACCTCTCCACCACAC	5251	67_454_G_F_68_454_G_R	ဂ	454
AACTAAGACAGCCAGGCAGC	5276	GTATCCCAAAGACCAAGCCA	5250	65_454_F_F_66_454_F_R	Ti	454
GAGGGCCACTGTGTCTGTCT	5275	CCTCTCCGCAGTTCTTTCAC	5249	63_454_E_F_64_454_E_R	m	454
GAGGCTGAAGACCTGACCTG	5274	TCCCCACTCTGTCATCCTTC	5248	61_454_D_F_62_454_D_R	0	454
GTCCGCATTTCTGCTTCTTC	<u>5273</u>	TCAAAGGCCTTGCATTTTCT	5247	59_454_C_F_60_454_C_R	C	454
GGAGAATGCTACGAGGTGCT	5272	TTGATGCTTTCCCATGTCTG	5246	57_454_B_F_58_454_B_R	В	454
CTGCAGAGATCTGGGTCCTC	5271	TGGCCCTGTCAGGAAGAGTA	5245	55_454_A_F_56_454_A_R	>	454
Reverse Sequence	ID NO:	Forward Sequence	ID NO:	n SSCP Assay	Exon	Gene
	SEQ		SEQ			
		Primers used in SSCP experiments	Q.			

	1010	ACCTGCCACGATAGCACAG	53/1	195/_561_K_F_1958_561_K_K	7	561
ATAGGTGAGGAGAACGTGGC	5403	AGAGGAAGCAACGGATACCA	5370	561_Z_F_1749_561_Z_F	2	561
CTICCCAGIIGIICCICCCI	5402	GGAGCTCCTAACCACTGCAC	5369	1746_561_Y_F_1747_561_Y_R	~	561
AAGGAGGCAGACAAGCAAAA	5401	GCCCCTAACTGATACAGAGGAA	5368	1744_561_X_F_1745_561_X_R	×	561
ACACTGGCCCGGTTAAGGTA	5400	CCAAGGGCTTCTCAAGCATA	5367	1248_561_Q_F_1249_561_Q_R	۵	561
ATATGGCAGAACGGGACAGA	5399	TCCTTTAGCCAAAGCAAGATG	5366	983_561_P_F_984_561_P_R	ס	561
ATGACGTTCATGCCCAATTT	5398	TTCTCAAATAGTAAGGGAAAGCA	5365	1538_561_O_F_1539_561_O_R	0	561
GTGGTGTACCACGAGGGAAG	<u>5397</u>	AGGGGAACACCGCTAAGTTT	5364	979_561_N_F_980_561_N_R	z	561
GATAAAATGCACAGGGAAGGTC	<u>5396</u>	CTGAACCAATCAATTACAGTGCT	5363	977_561_M_F_978_561_M_R	3	561
GTCGATACCCTGTTGCCAGT	5362	AGACCGCCTTTCTCCAGACT	5329	975_561_L_F_976_561_L_R	_	561
CACCTTGATGATCTGGCCTT	<u>5361</u>	CACGCTCCTCAGTTAGGCTC	5328	973_561_L_F_974_561_L_R	_	561
TTTGCTTAGCGGAAAATGCT	<u>5360</u>	ATGCTGGCGAGACTTACGAC	5327	971_561_K_F_972_561_K_R	7	561
AGCTACTCTGGGGACGGAG	<u>5359</u>	TGTAGGATGCGGGAGGAG	5326	969_561_J_F_970_561_J_R	ر	561
CCACCAGGAGGATGGTGT	5358	GTAGCTGAAGGTGGCCCTG	5325	967_561_I_F_968_561_I_R	_	561
GACTGAGGAGCCACCGAG	<u>5357</u>	CACGCCAGGATGGATGAG	5324	1536_561_H_F_1537_561_H_R	I	561
CTGTGGCTGTGGCAGGAT	<u>5356</u>	ACTCTGCAGTTGCTGCCGT	5323	963_561_H_F_964_561_H_R	I	561
TGATTGGGGTGCAGGTCTC	5355	GGCTCCCCATTGCAGGAC	5322	961_561_H_F_962_561_H_R	エ	561
AGTGATCAGGGCTGGAAGAG	5354	CACCCCCACAAGATGTTACC	5321	1534_561_G_F_1535_561_G_R	G	561
AAAACTCACCCTCTGCCCTT	<u>5353</u>	ACCGAATGATCTCGTTTCCA	5320	1532_561_G_F_1533_561_G_R	G	561
GGAAGGACACAGGGCTCAC	5352	CACGTCATCTTCCTCAACGA	5319	957_561_F_F_958_561_F_R	TI	561
CTCCCTTTGCTCCAGCGG	<u>5351</u>	GTGGGCAAGGACGTGGTG	5318	955_561_F_F_956_561_F_R	TI	561
TCTGCGTGATGTTGTCCAC	5350	GCCACCAGGATGGGGAAC	5317	953_561_F_F_954_561_F_R	П	561
TTCATGCGTGTCTCCTTGTC	<u>5349</u>	GAGAGCACATCCTGGACCTC	5316	951_561_F_F_952_561_F_R	TI	561
GGCACTGTTGTCGGTGATG	<u>5348</u>	CTGTGTTGGCTGGGTGATAA	5315	949_561_F_F_950_561_F_R	Ŧ	561
GGGAGCCCTGCCTATCTATC	5347	TGTGTCCTCCAGAGCCTCTAA	5314	947_561_E_F_948_561_E_R	Е	561
AAATCCCACCTTCTCCTCGT	5346	CCTCCAGCTTCAATAACCCA	5313	945_561_D_F_946_561_D_R	D	561
AACAGGACAAACTGGCCAAC	<u>5345</u>	GTCAGGAGAGCGCTATTGGA	5312	943_561_C_F_944_561_C_R	C	561
ATCTTGCGCTACCGGATCT	<u>5344</u>	CATGACCAACGTGCTTTGAC	5311	1_C_F_942_	C	561
ATTTCACCTGTGCACACCCT	<u>5343</u>	CCGGACTCAAAGTGAGCAGT	5310	939_561_B_F_940_561_B_R	В	561
CATGAACTGTGGGAAAGGCT	<u>5342</u>	ACACACATTTCCACCACCAA	5309	937_561_B_F_938_561_B_R	В	561
CTCCACCACACCAGGGAT	5341	AGGGTATAGGATGCACGCC	5308	1530_561_A_F_1531_561_A_R	Α	561
GCTAGAAGCACAACCCCAGA	5340	TGCCAGGAAAGAGTGGTTTC	5307	1776_757_A_F_1777_757_A_R	>	757
CAAATATACACACGCAGAAACC	5339	TAATGGAAACCAAGCCAATG	5306	1774_757_A_F_1775_757_A_R	Α	757
TCCACAAATCAGTCCAAACG	<u>5338</u>	CTGCAAGACAGAAACCTCCA	5305	1772_757_A_F_1773_757_A_R	A	757
TGTGAGGTTTGATGGAGGTTT	5337	TTGAGTTGGCTTTGCTACCC	5304	1770_757_A_F_1771_757_A_R	A	757
TTGCAAAGCAGTTATCTGTCC	5336	TGAAATTCAGGATGCTGTGA	5303	1768_757_A_F_1769_757_A_R	A	757
CTTCGCTGGAAAACCAAAAC	<u>5335</u>	AAATATGAGATCCCTGCCCA	5302	1788_757_A_F_1789_757_A_R	A	757
CACAACCAAGAAAAGCACCA	5334	CCTCCAAGACTCTGCAGTCC	5301	1786_757_A_F_1787_757_A_R	Α	757

		CAGG GC GAGGAAAGCC I	777			
TGCCTGAGTGCTGGTCTTC	5475	CARGTECTGAGGAAAGCCT	5443	436 H E 1566 436 H	I.	436
GGGATGAGCAGCAGAGACAC	5474	TCTCTGAGGTTTTCGTCGCT	5441	1563 436 G F 1564 436 G R	G	436
ACACCTGGCCACCACTTACT	<u>5473</u>	CTGCACTCGAGGTGACAGAG	5440	1561_436_F_F_1562_436_F_R	71	436
TGAGGCACAGAAAATCACTTG	5472	TAGGAGACCCCTGTGGACAT	5439	1559_436_E_F_1560_436_E_R	П	436
GGGTCATGTGAAGGAATTGG	<u>5471</u>	GCCACGTGGACTTTCTTTTC	5438	1557_436_D_F_1558_436_D_R	0	436
GAGCGAAAAGAAAGTCCACG	5470	TITCTTGGCTCTCCGTGAGT	5437	1555_436_C_F_1556_436_C_R	C	436
TCAGGCCACGTCAATCATTA	5469	TTCCCCATCAATTCAAATCC	5436	1553_436_B_F_1554_436_B_R	В	436
GACCGAGGCCAGGATGAG	5468	ACCCAGACCGACTAGGGGAC	5435	1551_436_A_F_1552_436_A_R	Þ	436
TCGTACTCGAACAGGAAGGC	5467	CCTAGAGGGTCATCGTTCCC	5434	1549_436_A_F_1550_436_A_R	А	436
AGGTGGCATCACTGCACTC	5466	AAGGCACACAAGAACCTGGA	5433	1867_422_F_F_1868_422_F_R	П	422
TGAGATGAGGCAGATAGAGGTG	5465	TTCTTCTTGCCCCAGATTGT	5432	1865_422_F_F_1866_422_F_R	П	422
CGGCCTACTGAGAACCAACT	5464	GTGAGGGCTGACCTATTGCT	5431	1863_422_E_F_1864_422_E_R	Ш	422
GGCAGGCACTCCAATTTTC	<u>5463</u>	CTGGCAGACCGATTTGAACT	5430	1861_422_D_F_1862_422_D_R	0	422
CCCATTCCAGAGGAGTGAGA	5462	TTATCTGGGCAGGGTTGTGT	5429	1859_422_C_F_1860_422_C_R	C	422
TTTCCTGTAGGTCCATGAG	5428	TTGGCAGACAGAAGAGGAGG	5395	131_224_S_F_132_224_S_R	S	224
CCGTGGAGAGACACCTTCAC	5427	TTGATTGGATTTGAGCTCTGC	5394	1444_224_Z_F_1445_224_Z_R	Z	224
ACCTACCCCAACTTGTGACG	<u>5426</u>	GCCTGTGGGTATTTTGCACT	5393	1442_224_Y_F_1443_224_Y_R	~	224
CAAAGGTGGTTTCTGGCAGT	5425	ATCCAGAGATACCCCAGCCT	5392	1440_224_L_F_1441_224_L_R	F	224
GCAAACCCACTCACCCTCT	5424	TGTGGGGTACAGTGGCATTA	5391	1438_224_J_F_1439_224_J_R	ر	224
AGCTGCCACCCTCTCATCTA	5423	GCAGATCCCAGGAAGAACAA	5390	1436_224_D_F_1437_224_D_R	0	224
TITAGCTTCCCTCCCCTCAG	5422	CAGCAAGTCCCTCCTGATGT	5389	1434_224_C_F_1435_224_C_R	0	224
GGAAAAGGGACCTGGGAAGT	<u>5421</u>	CCCAGCCCCTTCTCACTG	5388	1432_224_BB_F_1433_224_BB_R	88	224
GGGACCCACCTTGCTGAG	<u>5420</u>	CACCTGTCACCTGCCTTGTA	5387	133_224_W_F_134_224_W_R	٤	224
CAGGGTCCTCTTCAGAGTCG	<u>5419</u>	CGAATAAAGGCGTCGAGAAG	5386	1605_214_AA_F_1606_214_AA_R	\$	214
TITGGTCTGCTTCAGTGGTG	<u>5418</u>	CGACATGATCACAAGCGAAA	5385	1603_214_AA_F_1604_214_AA_R	₹	214
GCCATGGTTGTTAAATTAGGC	<u>5417</u>	TGTACGAACAGTCCAGACGAG	5384	1601_214_AA_F_1602_214_AA_R	\$	214
TTCGCTTGTGATCATGTCG	5416	CGGGCGTGTATATCTCTTCA	5383	1599_214_AA_F_1600_214_AA_R	Ą	214
AGCAGAGTGAACAGTGGCTG	5415	TATCTGGACGTGGTGGTGC	5382	1617_214_E_F_1618_214_E_R	m	214
AATGAACGTGGTGACTACAGC	<u>5414</u>	ACACCCATCACCTTACATGG	5381	1615_214_E_F_1616_214_E_R	П	214
CCCAGGCTGTGTCCTCTA	5413	CCGTCCCAGGATACCTTTTC	5380	1613_214_E_F_1614_214_E_R	т	214
AACAAACGCCTGGGTTGAG	5412	CTGCTTCAAGATGCCAGTGA	5379	1611_214_E_F_1612_214_E_R	m	214
GAAGGAGTGAGCCGGTAACA	<u>5411</u>	ATATGTTTGCTGGCTTTGGG	5378	1609_214_E_F_1610_214_E_R	т	214
TCACTGCTCACCCACGTTAG	5410	AGACAGTGTTGTTCCCGGAG	5377	1607_214_AA_F_1608_214_AA_R	\$	214
CATACCTTGAGTGCACACCG	5409	ACTCGGGAAAGGAAGGCTCT	5376	628_214_C_F_629_214_C_R	ဂ	214
AGGGAATGCAGGTGCAAAG	5408	ATGCTCTCCTGATGGCTCCT	5375	626_214_C_F_627_214_C_R	ဂ	214
CCACATCGTGCCTTTGTGTA	5407	GCCCTTAGGGAGAGCAGC	5374	196_214_A_F_197_214_A_R	А	214
ACTACAGGTTTGCACCACCA	5406	CAGAAGCAACCCACATGACC	5373	194_214_B_F_195_214_B_R	В	214
GTTGGGATTACAGGCACGAG	5405	CACTGTGTTAAAACGCCTGG	5372	192_214_B_F_193_214_B_R	В	214

AICAAICCAGGCAACAIGC	2240	GCTACCCTCCTGCTTTTCCT	5513	1332_570_J_F_1333_570_J_R	ر	570
ATTACTOR CONTROL	5545	AAAATACCTGTAGCAGCGCA	5512	1330_570_J_F_1331_570_J_R	د	570
TGGAGCTGTTTTTGTGCATC	5544	GGGACGTCCTTGACAGACA	5511	1516_570_I_F_1517_570_I_R	_	570
AGAAAGGGAAGCTTGGGGTA	5543	GCTTGCATCACTGTGTTTCC	5510	1326_570_I_F_1327_570_I_R	_	570
CCCCTCACTGGCTATTTTCA	5542	CCATGTGTTAAAGTGCCCCT	5509	1324_570_H_F_1325_570_H_R	I	570
GTGCCTGGACTCAGACACCT	<u>5541</u>	CGAAGTCTCGTAGCCAACATC	5508	1322_570_G_F_1323_570_G_R	ဝ	570
TCTGAATCCACAACTGCTGC	5540	CCTGTATTGCGGGGAGTAAA	5507	1320_570_F_F_1321_570_F_R	Tì	570
ACAATGCTTTTGTGTCGGTG	<u>5539</u>	GAGAGCACAGTTGGTCCACA	5506	1318_570_E_F_1319_570_E_R	m	570
AAATGGCCAAAACAAGTGCT	<u>5538</u>	AGGCATTGGAGTCTTTCAGC	5505	1316_570_D_F_1317_570_D_R	D	570
CAAAGCCAAGAAAACAGGGA	5537	TGAGCTGGTTTCTTACCTCCA	5504	1314_570_D_F_1315_570_D_R	D	570
ACCTTTCAAACAGCCCAAGA	<u>5536</u>	TAGGCGGCATTGCCTATATT	5503	1312_570_C_F_1313_570_C_R	ဂ	570
CCACAGAGGAAGACCACAA	5535	GGTTTTCATCCTTGAAGACTGT	5502	1310_570_C_F_1311_570_C_R	С	570
GCAACCAGTCTCCCACTCAT	5534	CATGGAGCCCCTCTTATCTG	5501	1240_515_A_F_1241_515_A_R	Þ	515
GCAACAGCCCAACTGTTTCT	<u>5533</u>	ACTTCTCCAGCCCATCCTTT	5500	1238_515_A_F_1239_515_A_R	Þ	515
GCTCGTGCTGCGGTTATTAT	<u>5532</u>	GGCCATCGTCTTTGTCATCT	5499	1236_515_A_F_1237_515_A_R	A	515
TGATAAAGAACGCCAGGTCC	5531	GCATCATCCTGTTCTGCTCA	5498	1234_515_A_F_1235_515_A_R	Α	515
CCACCATGATGAAGGTGATG	5530	CAGCCATCATCTCTTGCCTT	5497	1232_515_A_F_1233_515_A_R	Α	515
GCCATTCTGGATCAGCAACT	5529	GCCGTTCGTGATGGACTACT	5496	1230_515_A_F_1231_515_A_R	A	515
TCATGGCAAACATGAAGAGC	5528	TGTTGGGGCTGGAGTTTATC	5495	1228_515_A_F_1229_515_A_R	Þ	515
TGGATTTCCAGGACTTGAGG	<u>5494</u>	GCTCCATCGGACTCACTAGC	5461	1226_515_A_F_1227_515_A_R	Α	515
ATAGATCCCCAGACCCAACC	5493	CAGGTGCTCCTTAGCCAAATA	5460	2011_449_F_F_1992_449_F_R	П	449
TCTGGCCTGGGATAACTCAT	5492	ATTCCAAGGCCAAGTCCTG	5459	1993_449_F_F_1994_449_F_R	П	449
ATAGATCCCCAGACCCAACC	<u>5491</u>	GCTCCTTAGCCAAATATGGGA	5458	1991_449_F_F_1992_449_F_R	F	449
TGAGTGTGGGAGAAGATCCC	<u>5490</u>	TGTGGACTTAACACCTCTCCTTC	5457	_F_1990_449_	ъ	449
GTCGTTCTGACCTTCAAGCC	5489	CAAACCATTATGAGCCTGGG	5456	1987_449_E_F_1988_449_E_R	E	449
TGTGTTGGTGTGGGAGGTC	5488	ACTGTGATGGACCTGCTCCT	5455	1985_449_D_F_1986_449_D_R	D	449
TGTGGAGTGTGTAGTACTTGGTCC	5487	CAACGCCATCCTTACACAGA	5454	1983_449_D_F_1984_449_D_R	D	449
CTCTTCCCTCTCCTTGCC	5486	TCAATCCCCAATCTCTTCCT	5453	1981_449_C_F_1982_449_C_R	C	449
CCCCAAGCATAGGACACAGA	5485	ATGTGGCAAAGCCAGGAC	5452	1979_449_B_F_1980_449_B_R	œ	449
TCTCTGCTCCATCCTCAGGT	5484	AGTGGGCCTCAGGGTGAC	5451	1977_449_B_F_1978_449_B_R	Φ	449
GCTAGGTGGGATGGGGTATT	5483	GGAAGAGGTGCTAGACGCTG	5450	1975_449_A_F_1976_449_A_R	Α	449
AAATGCTCCTGCCTCAGAAA	5482	CTGGGTAGGAGCCTGGCTAT	5449	1973_449_A_F_1974_449_A_R	P	449
ATCAGTGCCATCTCTGTCCC	<u>5481</u>	CCAGATATTCCAGCCTCAGC	5448	1971_449_A_F_1972_449_A_R	>	449
ACAGGCCTCTTAAATTGCCA	5480	CCATCAGTGTGCTGAGTGCT	5447	1671_436_M_F_1672_436_M_R	<b>S</b>	436
ATTTCTCTGGGGTGATGTGG	5479	CTACTTCAGTGCACCTTGCG	5446	_436_L_F_1574_		436
ACACCCAAGAGATGAGAGGC	<u>5478</u>	CCATTCCGGTAAAGATTCCA	5445	1571_436_K_F_1572_436_K_R	~	436
GGTCTTGGAGAAGGGAAGGT	<u>5477</u>	GCCCCTGCAGAAACACTTT	5444	J_F_1570	ر	436
ATGTCAAATTTCCCCTGCCTG	5476	TGTGCCAGCTCCACTCTAAC	5443	1567_436_I_F_1568_436_I_R	_	436

CACAGAGGGCAAGGACIGIG	5677	CCGAGATGCTCCCTCCAG	5584	658_702_I_F_659_702_I_R		702
CAGAAGGGTGCCCAGTCA	5616	AGCAGGGAGAGGTCATGTTG	5583	656_702_I_F_657_702_I_R		702
ACCAACCCCACCCACACT	<u>5615</u>	CGAGGGTACCCACTCCCAT	5582	654_702_I_F_655_702_I_R		702
GGCTGACACAGGAGAAGGAA	<u>5614</u>	CCTCGTGTGGTCATCGTAAC	5581	652_702_H_F_653_702_H_R	エ	702
CATCGACGCTGCCTTCTC	<u>5613</u>	CTTGGCTGCCCTGTAGTGAT	5580	650_702_H_F_651_702_H_R	I	702
CTCCATGAGGCGGACAGA	<u>5612</u>	TGGGTGCAGACCGTCTCT	5579	648_702_G_F_649_702_G_R	G	702
GGTCTGCACCCAGAGTGG	<u>5611</u>	CACACAAGGATGCCTGTCC	5578	646_702_F_F_647_702_F_R	TI	702
GGACAGGGATGAGGACAGAC	<u>5610</u>	CAGAGCCTGTCTGCTGAGTG	5577	644_702_E_F_645_702_E_R	Ш	702
GCCСТТСТТGCCСТТАGТТС	5609	ACCTTGTCCTCGTAGGGGAG	5576	642_702_D_F_643_702_D_R	0	702
CAGTGGCTGTCCACGAGTT	<u>5608</u>	GGGGTTTCTGACCCCTCTT	5575	640_702_D_F_641_702_D_R	0	702
CCTGTTCTCCGTGACTCACTC	<u>5607</u>	GTCGAAGGGGTAGCCGTC	5574	638_702_C_F_639_702_C_R	C	702
CCCTGAACTTCCACGAGGT	<u>5606</u>	CTGCTCCTCATCCTCACAGG	5573	636_702_C_F_637_702_C_R	C	702
GGAGACCCCGTTCCTCAC	<u>5605</u>	AGTGAGCTGGGCTAGGCTCT	5572	634_702_B_F_635_702_B_R	B	702
CATAAGACGGGACTGTGCC	5604	CCCCTCACCCTGCTCTCT	5571	632_702_A_F_633_702_A_R	>	702
GTCTGCAGCTGCCCTGTT	<u>5603</u>	GGCCAGGGACATCAGGTT	5570	630_702_A_F_631_702_A_R	>	702
ACCATTGTTATTCCGGGCT	5602	тететсттестететст	5569	1518_698_D_F_1519_698_D_R	0	698
TCCTAATCCCCTTCCCAAGT	<u>5601</u>	TCCTTCCACTAAAGGGTGTCA	5568	1360_698_M_F_1361_698_M_R	3	698
CTCTGGCCAACAAGAAAAGC	<u>5600</u>	TTGACCTACAAGCTGTGCCA	5567	1358_698_M_F_1359_698_M_R	3	698
GCCTTTTAAACCACAGCTATT	5599	AGTTTTCAGCACATCCGTGT	5566	1356_698_L_F_1357_698_L_R	r-	698
GAAACCACCACCAAGGAGAA	5598	GGAGCATGTGAACACCTGAA	5565	1354_698_K_F_1355_698_K_R	ス	698
CCCTCATCCTTTCATCTTGTG	5597	TGTGTCGTAGGCATGAATTG	5564	1352_698_J_F_1353_698_J_R	ر	698
TITCTGGAAGACCCCAGTIT	5596	TCCTGCTCCTTCTGTGTAAGG	5563	1350_698_I_F_1351_698_I_R	_	698
CTCACTGCCACCCACAGTAG	<u>5595</u>	CATCCCCGTGAGTTTGATTT	5562	1348_698_H_F_1349_698_H_R	I	698
AAACGGCATCTACCAATTAAATC	5594	TCAGGTTGTCTGTCTGTCA	5561	1522_698_G_F_1523_698_G_R	G	698
CCTCCCATCTTGCAGTTCAT	5560	CAGGTGAGTTTAGTTTCCTGTCC	5527	1520_698_G_F_1521_698_G_R	G	698
GCTCTTTCACCGAAAACTGC	5559	AGGAAGGTGTTTATGCACGG	5526	1344_698_F_F_1345_698_F_R	T	698
TGACTGCCAAGCAATTTTCA	5558	TGTTTGGCTTGATCACTGAGA	5525	1342_698_E_F_1343_698_E_R	m	698
CACAAAACTGAAACCCCTGCC	5557	ACTGCTTTGTCTCCTGGGAA	5524	1338_698_C_F_1339_698_C_R	C	698
AAATCCAGTGGCTTCCTTCC	5556	TTTTGCCCACTGAGATGCTA	<u>5523</u>	1336_698_B_F_1337_698_B_R	В	698
TGCTGTGATTGCCCTAACAA	<u>5555</u>	GACCAGAATCCCAAGAGCAC	5522	1334_698_A_F_1335_698_A_R	Α	698
TCAGCATCCCACAGATGAAG	<u>5554</u>	GATTGTTCGGTTTGGCTTGT	5521	1374_581_G_F_1375_581_G_R	G	581
GGAATAAACAAGCCAAACCG	<u>5553</u>	CAGTACTACGACATTTCTGCCAA	5520	1524_581_F_F_1525_581_F_R	71	581
GCTCATACTGTGCTGCCAAA	<u>5552</u>	ACCATGCCTTGCCAAGAA	5519	1370_581_F_F_1371_581_F_R	T	581
GACTCCGTCTTGGGGAAAA	<u>5551</u>	ACAAGAATGTGCCTAACTGGC	5518	1368_581_E_F_1369_581_E_R	Ш	581
TGTTGCCACACAACACAATG	5550	TGAGGGGAGAGATACAGGTGA	5517	1366_581_E_F_1367_581_E_R	Ш	581
TGTTGGAACAGACCTGATTTTC	5549	GGAAAACCTTGCTTGTGGAA	5516	1364_581_D_F_1365_581_D_R	D	581
ATGAACCTCAACACCCAAGG	5548	TTCCGTGACTCTGGGATCTT	<u>5515</u>	1362_581_C_F_1363_581_C_R	C	581
GCCGTGCAGTTGAGCAGG	5547	TGGTGCTATTCCTGAACGGG	5514	1897_570_B_F_1898_570_B_R	В	570

GenR2	GenR2	GenR2	GenR2	GenR2	GenR2	GenR2	848	848	848	751	751	751	751	751	751	748	748	748	722	722	722	722	722	722	722	722	722	722	722	702	702	702	207
m	TI	П		C	0		7	~	~	7	<b> </b> ≺	×	8	<	C	▶	≯	▶	Þ	\$		-	I	G	TI	m	0	0	B	-		_	-
1790_GenR2_E_F_1791_GenR2_E_R	1577_GenR2_F_F_1578_GenR2_F_R	1575_GenR2_F_F_1576_GenR2_F_R	1459_GenR2_D_F_1460_GenR2_D_R	[]	1	_GenR2_A_F_	Ш	848	848_Y_	1955_751_Z_F_1956_751_Z_R	1953_751_Y_F_1954_751_Y_R	1951_751_X_F_1952_751_X_R	1949_751_W_F_1950_751_W_R	1947_751_V_F_1948_751_V_R	1945_751_U_F_1946_751_U_R	1999_748_A_F_2000_748_A_R	1997_748_A_F_1998_748_A_R	1995_748_A_F_1996_748_A_R	1901_722_A_F_1902_722_A_R	739_722_AA_F_740_722_AA_R	1526_722_J_F_1527_722_J_R	396_722_I_F_397_722_I_R	394_722_H_F_395_722_H_R	512_722_G_F_513_722_G_R	390_722_F_F_391_722_F_R	388_722_E_F_389_722_E_R	386_722_D_F_387_722_D_R	813_722_C_F_814_722_C_R	382_722_B_F_510_722_B_R	666_702_I_F_667_702_I_R	664_702_I_F_665_702_I_R	662_702_I_F_663_702_I_R	660_702_I_F_661_702_I_R
5651	5650	5649	5648	5647	5646	5645	5644	5643	5642	5641	5640	5639	5638	5637	5636	5635	5634	5633	5632	5631	5630	5629	5628	5627	5593	5592	5591	5590	5589	5588	5587	5586	5585
CTCTGACCTTGCACTACCCC	TAGCGCCCTATCCCTTTCTT	GTCTTTCCCATCCCTCAACA	TCCTCCTAGGAACAGAGCCA	TATTTCACCCAGGAGGTTCG	CATTTCTTGGCACACAATGG	CCAAGCCCCAAATTTAAGTG	CATTTGTCTTCACTGGCCG	TCTCCTCGCCCTCTCTCTG	GCCTCCAACTTTGCCTCTC	TCACTGGGCTTATGGCTCTC	ATTTCCAAATCCCAACCTCC	CCTAACTACGTGCAAAGGGC	TGCCACTCAGGGTGACTGT	TAGCCTGTGGTGAGGGCAGT	GGTGCTACCTCCTCTGATCCT	TAAGAATGGGTTCGAGGGTG	GCTTCCATGGTTGCTTAAAA	TAGCATCCACCTGTGGTCCC	GGGCTCCCGCTGGAAAG	TCAGCTTGCTTTCTTTGACA	GCAAATGCCATTGTTGATTT	CCATTACATGCACATCGTGTT	CCCTTTAACTTCCAAACCCA	ATGGTTGCAAATGGCTTTGT	ATGGCCCTCAGATACGAATG	TTGAAGTCAGGCTTGGAACA	ATGTTGGATATTATAGCTCAGATGC	GATTTGAGTTTGCCATGCTGT	TTCAGTTCGCTATTTGTGCC	CTCCACACACCAGCCAGTC	GTGCATGAGCAGACCTCGTA	CACAGTCCTTGCCCTCTGTG	TCGTCAGTCAACACAGTCCC
5676	5675	5674	<u>5673</u>	5672	5671	5670	5669	5668	5667	5666	5665	5664	5663	5662	5661	5660	5659	5658	5657	5656	5655	5654	5653	5652	5626	5625	5624	5623	5622	5621	5620	5619	<u>5618</u>
CCACCGTGTCTTCAAATTCA	TCCATCCCAAGCTTCACTCT	GGGAGGCATAATGAACCAGA	ATGCACTCAGCGACCTTCTC	TGTTGCCAAGAATGTGGAAA	TGGTTGAGCCACCATACTCA	CCTCTCGCCTAAAACTGTGC	TGGTGTCTGCCGCTGATT	TAAAACGCAAATCCCACCTC	TAAAACGCAAATCCCACCTC	GTCCATGAGCAAAGGTGGAG	CTGGGACCCTCGGTTTATG	GCTCAGGATTTGAGTCCCAG	TGCAAGCCTGCTCCTGAT	TCCTGTGACCTCAAAGCATCC	CACCTGCAGCCTCATGGTA	TGGTTGAGAGAGCAAGAGGAA	TGCCTTTCAATCAGTAGAAGAAC	CAGAAGCCAGAAGGCCAAAG	GGCCTGAACCGCTACCC	GTGGCTGGCAAGCTTTTATT	CGGGTTACAGCGTCTGAGAT	TCTTCGAAGCCAAACTCACC	TCTTGGAGAATGCAAGAGTCTG	ACAGAAGAGGACATGGAGCC	TTGAAGTGAGACCTTAAGGGAGA	TTCAGAGTCTGCAAGAAGAAAGT	CAAATACCCATACTCCCAACATC	ACAGCCAGAGGGACACACA	GGACAGGTAGGCAGGCTATG	CAGTCTTGTGCAAGCCCC	TGCCTCCTACTTCTTCCGTG	GCCCCTCCAGGACAACAT	CCAGGCCCTGACGCTATG

Please replace Table 9 on pages 178-181 with the following table:

TABLE 9: SEQUENCING PRIMERS

561 B	757 A	757 A	757 A	757 A	757 A	757 A	757 A	757 A	757 A	757 A	757 A	757 A	757 A	757 A	454 AA	454 AA	454 AA	454 0	454 0	454 N	454 M	454 L	454 K	454 H	454 H	454 G	454 F	454 E	454 E	454 B	Gene Ex	
MDSeq_169_561_B_	MDSeq_425_757_A_	MDSeq_424_757_A_	MDSeq_423_757_A_	MDSeq_422_757_A_	MDSeq_421_757_A_	MDSeq_419_757_A_	MDSeq_418_757_A_	MDSeq_413_757_A_	MDSeq_412_757_A_	MDSeq_411_757_A_	MDSeq_410_757_A_	MDSeq_409_757_A_	MDSeq_408_757_A_	MDSeq_407_757_A_			A MDSeq_460_454_AA_	MDSeq_128_454_O_	MDSeq_127_454_O_	MDSeq_126_454_N_	MDSeq_125_454_M_	MDSeq_124_454_L_	MDSeq_123_454_K_	MDSeq_291_454_H_	MDSeq_122_454_H_	MDSeq_121_454_G	MDSeq_120_454_F_	MDSeq_473_454_E_	MDSeq_119_454_E_	MDSeq_118_454_B	xon Forward Primer	
F ACTGCTCTCCCGTGAAAGTG	F GAGGACACGTCCAACGCC	F CAAGAAGAGGCCGAAGTTTG	F GAGGACACGTCCAACGCC	F CAAGAAGAGGCCGAAGTTTG	F CAAACTTTGCTGCTCTCCG	F AGGGAAGCTCCTCCAGTGA	F CTCGCTTCCCGGTATTGTT	F TGAACTCAAACGATGTGCAA	F AGGGAAGCTCCTCCAGTGA	F TCTTTATGCTGCTGGTGGTG	F AGCCAACAGCAGCTACTTCC	F CGTGGACGTGTACTGGAGC	F TTCTTCCTGTGCTCGCTGTA	F CTCGCTTCCCGGTATTGTT	F TCTTGTGACATTTGCAAGGC	F TGCATCTTTGAGTGACTGCTG	F CTCAACTCCACTTTCCTCGG	F GAACACATGCATGGTCCTGA	F CGATTCCTGGACAACCAGA	F AGCATGGGGTTCCCATTT	F CCAGCACTTGAACGCATCTA	F GTCTCCCCTTAATGTGTGGG	F CCCAGAACCCAGCACTTTC	F AGTGCCCTGAATTCCAGTCT	F AGTGCCCTGAATTCCAGTCT	F TTCTCCCAGAGCAAGTGACC	F ACAGCAAGGAGGAAGTCCG	F TCCTGTTACTCTCCTGCGGT	F AGCCAGCAGAATCCACAGTC	F CCAGATACTGGGCAAAGGAG	Forward Sequence	
5733	<u>5732</u>	<u>5731</u>	5730	5729	5702	<u>5701</u>	<u>5700</u>	<u>5699</u>	<u>5698</u>	<u>5697</u>	<u>5696</u>	<u>5695</u>	5694	<u>5693</u>	<u>5692</u>	<u>5691</u>	<u>5690</u>	<u>5689</u>	<u>5688</u>	<u>5687</u>	<u>5686</u>	5685	5684	<u>5683</u>	<u>5682</u>	<u>5681</u>	<u>5680</u>	5679	5678	<u>5677</u>		
MDSeq_169_561_B_R	MDSeq_425_757_A_R	MDSeq_424_757_A_R	MDSeq_423_757_A_R	MDSeq_422_757_A_R	MDSeq_421_757_A_R	MDSeq_419_757_A_R	MDSeq_418_757_A_R	MDSeq_413_757_A_R	MDSeq_412_757_A_R	MDSeq_411_757_A_R	MDSeq_410_757_A_R	MDSeq_409_757_A_R	MDSeq_408_757_A_R	MDSeq_407_757_A_R	MDSeq_471_454_AA_R	MDSeq_470_454_AA_R	MDSeq_460_454_AA_R	MDSeq_128_454_O_R	MDSeq_127_454_O_R	MDSeq_126_454_N_R	MDSeq_125_454_M_R	MDSeq_124_454_L_R	MDSeq_123_454_K_R	MDSeq_291_454_H_R	MDSeq_122_454_H_R	MDSeq_121_454_G_R	120_454_	MDSeq_473_454_E_R	MDSeq_119_454_E_R	MDSeq_118_454_B_R	Reverse Primer	
CCATCAGCATCTGTGTGACC	CTCGTCCGAGCCGTTGTT	TACAGCGAGCACAGGAAGAA	CTCGTCCGAGCCGTTGTT	TACAGCGAGCACAGGAAGAA	AGTTGGGGTCGTTCTTGTTG	TCTGCCAACCTAGTGCTTCC	GCCTCCATGCACAGGTAGTT	TTCCAACTTCACACATTGCC	TCTGCCAACCTAGTGCTTCC	GGGTCCTGTCTTTCCTCTGC	GACTGGGCAGGGATCTCATA	CTCCAGCTTGTCCGTGTTCT	CTCTCCAGTCCCTCCTGGAT	GCCTCCATGCACAGGTAGTT	TCAGAATGTGCACCTGAAGC	ACTCTGGTCTGCAGTTGGTG	CAAGAAGCGCCAAGTCCTAC	ACAGACAGGATTTCGCCTTG	GGACAGTTTGCTGTGCCTC	ATTGGAAGGGGGCATAAAAG	CTTCCCTCTATCTTGCCCCT	GGGCCTAATTTTCGTGCAT	TAGAATTGCTTTCCAGGCCC	CATTCATCTTGTTGCCTTGG	CATTCATCTTGTTGCCTTGG	CCACAGGAAAGGAATACACCA	TGGAAAAGGGTTCTCCAGC	CCAACTCACGCAAAGAATGA	GGTACCCTGGAAGATCTGGG	GCACCAGGACATGAGGCTAT	Reverse Sequence	
<u>5765</u>	<u>5764</u>	<u>5763</u>	<u>5762</u>	<u>5761</u>	5728	5727	<u>5726</u>	<u>5725</u>	<u>5724</u>	<u>5723</u>	<u>5722</u>	<u>5721</u>	<u>5720</u>	5719	<u>5718</u>	5717	<u>5716</u>	<u>5715</u>	5714	5713	5712	<u>5711</u>	5710	<u>5709</u>	<u>5708</u>	5707	<u>5706</u>	<u>5705</u>	<u>5704</u>	<u>5703</u>		

MDSeq_323_436_C_R
MDSeq_416_436_D_R
MDSeq_414_436_D_R
MDSeq_404_436_A_R
MDSeq_396_436_A_R
「MDSeq_395_436_G_R
394_436_
393
MDSeq_375_436_A_R
MDSeq_374_436_L_R
MDSeq_340_436_B_R
MDSeq_327_436_K_R
MDSeq_326_436_G_R
MDSeq_325_436_E_R
MDSeq_324_436_D_R
MDSeq_323_436_C_R
MDSeq_434_422_F_R
431
403
MDSeq_399_214_AA_R
MDSeq_383_214_E_R
343
110
15_214_
MDSeq_417_561_X_R
415_561_X
402_561_Y
401_561
_392_561_
MDSeq_390_561_G_R
MDSeq_183_561_P_R
MDSeq_177_561_M_R
MDSeq_174_561_H_R
MDSeq_173_561_J_R
MDSeq_172_561_H_R
MDSeq_171_561_E_R
MDSeq_170_561_C_R

GCT	AAGACGATCTTGTGGTCGCT	MDSeq_115_702_F_R	30/1	ACGCTTCTTGTAGGACCGAA	MDSeq_115_702_F_F	71	702
GATATCTACAGCAGGCCCA	GGATATCTACA	_114_702_	<u>5870</u>	CCCTCTGATCAGGCACAGTC	MDSeq_114_702_B_F	В	702
3CCCTGAC	AAGGGTGGGAGCCCTGAC	MDSeq_113_702_A_R	<u>5869</u>	TTCCCACCACTCTCCTGC	MDSeq_113_702_A_F	А	702
TGGTACAAA	CGCTCCATGAATGGTACAAA	MDSeq_112_702_D_R	5868	CAACCCTGCCTGTCGTAACT	MDSeq_112_702_D_F	0	702
GACTCA	ACGTTCCCACGGGACTCA	MDSeq_111_702_C_R	<u>5867</u>	GTGATGAGGACAAGCTCGG	MDSeq_111_702_C_F	С	702
GAGAAGTTT	TGAAACAGGCCAGAGAAGTTT	MDSeq_287_698_I_R	<u>5866</u>	GACAGCGCCTCTGGGTATTA	MDSeq_287_698_I_F	_	698
SATGAAAGTC	TGACGAATACAGGATGAAAGTC	MDSeq_280_698_H_R	5865	TGTGTACAGATTGCCCCTACCC	MDSeq_280_698_H_F	I	698
TTCTAAT	TGCCAAGGGCTGTTTCTAAT	MDSeq_275_698_E_R	<u>5864</u>	GTAAGCATTTGTGTGGCAGC	MDSeq_275_698_E_F	m	698
CATCACG	CGGCTAAGTCTTTCATCACG	MDSeq_274_698_B_R	<u>5863</u>	TGTCCTGGACCATCACAGTT	MDSeq_274_698_B_F	8	698
TGGGCT	TAGACTTCTGACGCTGGGCT	MDSeq_345_581_F_R	<u>5862</u>	CCTTCTGAGTAGCTGGGCTC	MDSeq_345_581_F_F	т	581
TGGTA	TAGCCAGGCGTGGTGGTA	MDSeq_277_581_E_R	<u>5861</u>	GGGAGATTTGATAGGGTCAGC	MDSeq_277_581_E_F	ш	581
AGCTGT	CCACGTAGGAATGGAGCTGT	MDSeq_294_570_I_R	5860	GCTGGCACTGGTGTCTATCA	MDSeq_294_570_I_F	_	570
CTCCA	CCAAGACTTTGCAATCTCCA	MDSeq_271_570_J_R	<u>5859</u>	CAGACAGCCCACCTCCAG	MDSeq_271_570_J_F	ب	570
ATCAG	TTGGCAATTTCTTTCATCAG	MDSeq_270_570_I_R	<u>5858</u>	CTGAGTGAGCGGAGGTGTTT	MDSeq_270_570_I_F	_	570
CAGTC	AACCTCCCTTTAACTCAGTC	MDSeq_268_570_F_R	<u>5857</u>	CACCTGATTATTTTCCCCCTCA	268_	Т	570
ATCAGG	GCATGAGCTCTGGAATCAGG	MDSeq_266_570_C_R	<u>5824</u>	TTGATTGTGTTGCGCTTCTT	MDSeq_266_570_C_F	С	570
SCAAGT	GCGTCAGAGATGAAGCAAGT	MDSeq_265_515_A_R	<u>5823</u>	GGCCATCGTCTTTGTCATCT	MDSeq_265_515_A_F	Þ	515
SAAGAT	GTGTGCAGGAGCCAGAAGAT	MDSeq_263_515_A_R	<u>5822</u>	CTGCTGTGTTCCGAGATG	MDSeq_263_515_A_F	A	515
CAAGT	GCGTCAGAGATGAAGCAAGT	MDSeq_239_515_A_R	<u>5821</u>	GGCCATCGTCTTTGTCATCT	MDSeq_239_515_A_F	Α	515
GGGC	TTGGAGATCTTGTTCAGGGC	MDSeq_237_515_A_R	5820	CGTAGTTTCCTGGTAACCATTCA	MDSeq_237_515_A_F	A	515
гссст	CAGGAGCAACACAATTCCCT	MDSeq_236_515_A_R	<u>5819</u>	TGGACCTGGCGTTCTTTATC	MDSeq_236_515_A_F	A	515
GCCC	ATTACTCGATGCAACAGCCC	MDSeq_235_515_A_R	<u>5818</u>	CAGCCATCATCTCTTGCCTT	MDSeq_235_515_A_F	Α	515
CACG	CACCATCAGGATTCTTCACG	MDSeq_474_449_F_R	5817	CACATATCTGCCCTGCTCCT	MDSeq_474_449_F_F	П	449
TGATA	CAGGGACGTGGACTCTGATA	MDSeq_472_449_A_R	<u>5816</u>	CCAACTTCAGTTTCCCAACG	MDSeq_472_449_A_F	Α	449
GATA	ACGGGGTCTCCCTGTGATA	MDSeq_463_449_F_R	5815	AAGAGAAAATCCGGAGGACC	MDSeq_463_449_F_F	F	449
CCAAG	CAGAGAGCAAGAAGGCCAAG	MDSeq_462_449_D_R	<u>5814</u>	GTCACACAGCCAGTAGGCAG	MDSeq_462_449_D_F	D	449
GGATG	GTAGGGCAAGAGCTGGGATG	MDSeq_416_436_D_R	<u>5813</u>	TCACTGTTTTCCATTGGGTTA	MDSeq_416_436_D_F	D	436
GGATG	GTAGGGCAAGAGCTGGGATG	MDSeq_414_436_D_R	5812	TCACTGTTTTCCATTGGGTTA	MDSeq_414_436_D_F	0	436
зттс	ATGTTGCCCAAATTGGTTTC	MDSeq_404_436_A_R	<u>5811</u>	AGGAGCCTTTCGTCCTCAA	MDSeq_404_436_A_F	A	436
4GTGG	TGAGTGCTGGTCTTCAGTGG	T MDSeq_395_436_G_R	<u>5810</u>	GGCTGCAGAAAACTTCACTCT	MDSeq_395_436_G_F	G	436
GGATG	GTAGGGCAAGAGCTGGGATG	MDSeq_394_436_D_R	5809	TCACTGTTTTCCATTGGGTTA	MDSeq_394_436_D_F	D	436
GGATG	GTAGGGCAAGAGCTGGGATG	MDSeq_393_436_C_R	5808	TCACTGTTTTCCATTGGGTTA	MDSeq_393_436_C_F	С	436
AAGAA	AGAGTTGACCCAGCCAAGAA	MDSeq_374_436_L_R	<u>5807</u>	GCACAGGCCTCTCATCTCTT	MDSeq_374_436_L_F	L	436
GGTG	ACCCAAAATGTGGAAAGGTG	MDSeq_340_436_B_R	<u>5806</u>	CCATCAGTGTGCTGAGTGCT	MDSeq_340_436_B_F	В	436
AGTAG	CGCAAGGTGCACTGAAGTAG	MDSeq_327_436_K_R	5805	GCTAGGCATGGTGAGTGGTT	MDSeq_327_436_K_F	χ.	436
твстт	ACGCAGAGTTGAAGGTGCTT	MDSeq_325_436_E_R	5804	_	325_436	m	436
\GCG	AGTTTGGGTGACAGAGCG	MDSeq_324_436_D_R	<u>5803</u>	TGTGAAAAGTGTTGCTCTGAA	MDSeq_324_436_D_F	ם	436

	Τ	<u> </u>	<del>-</del>	<del></del>	1	<u> </u>	Ţ	T	1		T	T	1	1	т	1
GenR2	751	751	722	722	722	722	722	722	722	702	702	702	702	702	702	702
TI	8	C	A	G	В	В	A	C	F	-	_	C	_	В		_
MDSeq_420_GenR2_F_F	MDSeq_456_751_W_F	MDSeq_455_751_U_F	MDSeq_441_722_A_F	MDSeq_150_722_G_F	MDSeq_146_722_B_F	MDSeq_141_722_B_F	MDSeq_135_722_AA_F	MDSeq_132_722_C_F	MDSeq_63_722_F_F	MDSeq_269_702_I_F	MDSeq_196_702_I_F	MDSeq_191_702_C_F	MDSeq_179_702_I_F	MDSeq_178_702_B_F	MDSeq_117_702_I_F	MDSeq_116_702_I_F
CCCAGGAGACAGAGGTTTCA	CTCCCAGGTAAATGCCTCAA	AGACACTCTCCAGCTCTCGC	TATTACCCAAAGCTGCACCC	CAGTGTGCCGAGACATTGTT	TGCAACACCAGCAGTTTCAC	TTCAGCCAGGATCTGTTGTG	GACACGATCCTGGCTCTCTG	ACCTGATAGGTTTTCCCGGT	TAAGTAGGGTTGTGACCGGC	AGCAGGGAGAGGTCATGTTG	CAGTCTTGTGCAAGCCCC	AGATCGGCCTAGTGGGAAAT	TCGTCAGTCAACACAGTCCC	AGGCACAGTCCCGTCTTATG	CACTAGGGGACAGCTCCGT	AGCAGGGAGAGGTCATGTTG
5888	5887	5886	<u>5885</u>	5884	<u>5883</u>	5882	<u>5881</u>	5880	5879	5878	5877	<u>5876</u>	5875	5874	<u>5873</u>	<u>5872</u>
MDSeq_420_GenR2_F_R	MDSeq_455_751_W_R	MDSeq_455_751_U_R	MDSeq_441_722_A_R	MDSeq_150_722_G_R	MDSeq_146_722_B_R	MDSeq_141_722_B_R	MDSeq_135_722_AA_R	MDSeq_132_722_C_R	MDSeq_63_722_F_R	MDSeq_269_702_I_R	MDSeq_196_702_I_R	MDSeq_191_702_C_R	MDSeq_179_702_I_R	MDSeq_178_702_B_R	MDSeq_117_702_I_R	MDSeq_116_702_I_R
CCCAGACTGGCTTTGAACTC	TACTGTCCTCCATTCCCAGC	GCAGGACCCTGGACTACAGA	TCAGGACTCCCTGAGACCC	TGAGTCTCCACAAACATAGC	ACCTCTACGGCAGGCTGAAT	GGGCCTGGGAGTTACCTTAT	GCCTGGGTGACACAGCTA	ATACAGATGCCCTGGCTCG	CACTCTCCCAATCTCCCTGA	GGTGTGTGGAGACTCACAGG	CACAGTCCTTGCCCTCTGTG	GCTCTCATTTCCCTCCCTC	CCCACTGCAGTCTTGTGC	GAGAGCTCCTGCTGCTGTCT	CTGCCATCTAGCACGAGCC	GGTGTGTGGAGACTCACAGG
5920	5919	<u>5918</u>	5917	5916	<u>5915</u>	5914	5913	5912	5911	5910	5909	5908	5907	5906	5905	5904

Please replace Table 10 on pages 183-187 with the following table:

### TABLE 10: SNPs

436	436	436	436	436	436	436	436	436	436	436	436	436	436	436	436	436	436	436	422	422	214	214	214	214	214	214	214	214	214	<u>'</u>
7	~	~		G	m	0	0	C	C	0	C	>	A	>	>	<b>&gt;</b>	>	≯	Ш	m	m	m	ш	т	m	m	m	0	B	
-2	-	+2	+				<u>-</u>	<u></u>	ψ.	+2	+	2		ω	-2	-	+2	+	2	_	ω	2		<u></u>	+3	+2	+	-		
Intron	Intron	Intron	Intron	Exon	Exon	Exon	Intron	Intron	Intron	Intron	Intron	Exon	Exon	Intron	Intron	Intron	Intron	Intron	Exon	Exon	3' UTR	3' UTR	Exon	Intron	Intron	Intron	Intron	Intron	3' UTR	
GATTCCAGGCTTCTCAGGAAGGGCGCACGCAAAGAATAAGAT	GCTCACTCTCACCCTATGCT <u>A</u> AACTCAGGCGACCGTGCTGT	RCGACATCTCARGTTGGTGA <u>T</u> GATAATGCATGCTCTGAGAA	GGGAGGCCCTTCTGCAGAGGCTGGCACCAGTGTGGCGTGGT	TAGTGGAGAACGCAGGACACAGGTTTCCAGGACATGGCCGTG	TGCGTAGCTTTCAACGGGTCCCGTCAAGACGTGTGAGGTGGC	ATTCCAGATGCGACCACTGTGTGTAAATCAGATGCCAGCTG	GTCCACCTGTGTGGGGGCCACGTGGACTTTCTTTT	CTCTCCGTGAGTCCTCTGAGCGTGCTTGCCCCGTGCTGTCT	TGTGGCCTCCTGGGGAGGGCCCCTGAGCAGATCGCCCC	AACGGTACGAGCTTGTGGCC <u>T</u> CCTGGGGAGGGCAGCCCCTG	ATTCCAGATGCGACCACTGTGTGAAATCAGATGCCAGCTG	TGAACCGCGCGTGCAACTGCTCATCCTGGCCTACGTCATC	CGGGCGCGCCATGGCGGCTGCTGCCCCCCCCCTGGCG	TCCTCAAGGGMGAGGCCACT <u>CC</u> CCCCCCCCGCGAGTTCCAT	GCCCTCCCCGGGCCCCGGG************CCCCGACCGCCCGT	CCTTCCGGGCCATCATCCGCGATGACGGCGCCGCCAGCAGG	CTGCTTGCTGTTTTTAAAGCCACAGCCTGGGCCAGGCGC	GECCECEGEGEGECECEGCEGEGEGEGEGEGEGEGEGEG	ACCCACACCTATTCATACTCGTGCTCTGGCTCGGCAATCAC	CAGACACATGACAACTGCTATGACCAGGCCAAGAAGCTGGA	TCAGGAGCCTGTGCTTGACCCCCAAATCCGCCCCCCAACTC	GGGCTCTGCGCCACCTCAACCCCAGGCGTTTGTTCCGCAGGA	CACCTGCATTCCCTCTCTCTGTGAGTGTCCTGGGGCCCGTT	AGGCCGCTTCAACCCTTCCTCCGGCAGGGGGCAATGGCCAA	CTCAACTCCCGGTCCCCTC**CAGCCCTGACAGCCACTGTT	CCCTGTGACCCTCAACTCCCGGTCCCCTCCAGCCCTGACAG	AAGGACACATTCTTATCAGCTGTAGTCACCACGTTCATTAC	GGGCTCTGCGCCACCTCAACCCCAGGCGTTTGTTCCGCAGGA	CCTGTGCACTCTTGGGCATACGCCTAGGAGTGGAACTGCTG	
5950	5949	5948	5947	5946	5945	5944	5943	5942	5941	5940	5939	<u>5938</u>	<u>5937</u>	<u>5936</u>	<u>5935</u>	5934	5933	5932	<u>5931</u>	5930	5929	5928	5927	5926	5925	5924	<u>5923</u>	5922	5921	
G>C	A>G	T>A	C>G	A>G	C>T	G>A	G>A	C>T	A>G	T>C	G>A	C>T	G>T	CC>**	G G	G>T	G>A	G>T	G>A	T>C	C>T	C>T	G>T	C>T	**>TC	G>C	T>C	C>T	C>T	TIVIT
				Ser > Gly								Leu > Phe	Gly > Cys								Pro > Ser		Val > Leu							AA change

CGGTGAGCCATG 5987	GCCAACTCC		Exon	ω	A
	CGGATCCGCATCTTCTGGCTCCTGCACA	CAGCGIGGIIGIIGIGCGGAICCC	E XON	2 -	<b>&gt;</b>
G <u>5984</u>	AGTTTCC <u>A</u> AAGAGTGAAGGGCAGTACAG		Exon	თ	0
	TTTGCCATCCTGCCCAGCTGCTGCCGCT		Exon	5	0
	CCTTGCTGGCGCTGGATGTGGATTCCAC	CTCTACCAGGAGCCCTTGCTG	Exon	4	454 0
	GCTGTGCTGCCGGAAAAA	GAGCCACAGGTGCCTGGAGGAGGGGGCTGTGCCGGAAAAAGC	Exon	ω	454 0
	3TCTGGTGCCAGTGTGGAAG	CCTAGATCCAGGGATAGCCCCGTCTGGTGCCAGTGTGGAAG	Exon	2	454 0
	CTGCTTAGAAAGGAGGCGA		Exon	_	-
5977	ATTAAATGTAACTTTATAAGTTAATAA	ATAAATCATGTAATATTAAATG	Intron		454 0
<u>5976</u>	CAGGCCACTGTGTTCATCGACTTCCTC		Exon		
<u>5975</u>	CGCTGGGCTCTACCCCGATCAACCAACT		Intron	+2	
5974	CAAGACACGGAGAGATTCCATGAAATCA		Intron	+	
<u>5973</u>	ATCGACACTTACTCCAGTAACTGCTGTC		Exon	2	-
5972	CACTCTGTTTTTAGGGAGG	ATTTCACCTGAGTAAACTCTCCCACTCTGTTTTTAGGGAGG	Intron	1	
5971	SAGAAACGGACTCTGATAAAAGTCTTCG	GGAAAACAATGTTGAGAAACG	Exon		454 K
5970	AGTTTCCGTCGCCTTGACGACAAGACCA	CCGTCCCAAATACAGTTTCCG	Exon	2	
5969	CACTGCCGTCCCAAATACAGTTTCCGTC	CCGTTGGTTCCATCACTGCC	Exon		454 H
5968	GTTTAACGGTGATGTGTCCCAGACGGGG	TTTAGGACAATGAGTTTAACG	Intron	-2	454 H
<u>5967</u>	TCTAAAAACCTTAAGCAAT	GTTCTTCAATCAGCATTTTTCCTTAAAAACCTTAAGCAAT	Intron	<u>-</u>	454 H
5966	TCTGTTTCAATCGAGATGT	CACTCCTGGGAAAGAGACAGATCTGTTTTCAATCGAGATG	Intron	<u>-</u>	454 G
5965	TCCCAAAGACCAAGCCAAG	TGTATCCATTTCTCTTCATGCATCCCAAAGACCAAGCCAAG	Intron	ώ	454 F
5964	CCTCGGTCCCCACCGTCACTAATGGCCA	GGCCCATGGGCTCCCTCGGT	Intron	-2	454 F
5963	CCGTCACTAATGGCCATTTT	CATGGGCTCCCTCGGTCCCCACCCACTAATGGCCATT	Intron	-1	
5962	AATAAATTATCCCAAACCTCAGAAGCCT	TCTACTGCTGAGTAATAAATI	Intron	+	
5961	CCTGGTGCCCCATCGAGGCAGTGGAAGA	TGTGAAGTCTCTGCCTGGTG	Exon	ω	454 E
5960	AGACCGGAAGGTGTGTAGTGCATGAAGGGAACCAGAAGACC	AGACCGGAAGGTGTGTAGTG	Exon	2	454 E
5959	TCAGACCGGAAGGTGTGTAGTGTATGAA	CCCCTATAGGAATTCAGACCG	Exon	1	454 E
5958	CTCGCCCGGGTTGAGTTAATGATGTCCC		Intron	-2	ĺ
<u>5957</u>	GCAGTTCTTTCACATCTGTG	CTCCTGGAGAACGTCCTCTCCGGCAGTTCTTTCACATCTGTG	Intron	<u>-</u>	
<u>5956</u>	GGAGAATGGAGTGAAGAAGT	AGAGGTGAAAGAGGAGATCGTGGAGAATGGAGTGAAGAAG	Exon		
5955	CCTGCATCCCAACCCGCTGT	AAGTGCCTGCATCCTCCAACGCCTGCATCCCAACCCGCTGT	Intron	-	
5954	3CAGGATCTGTTTGCCCACT	AGCAGCTCCTGTGTGTGTGTGCAGGATCTGTTTGCCCACT	3' UTR	1	
5953	TGGCGTGGTGCCCCGTTAACCCCGGGCAGTCCTGCCACTCT	TGGCGTGGTGTCCCCGTTAA	Intron	-3	436 L
5952	GGTGAAGTCCCAGGAGCGCACAC	GGTGAAGTCCCAGGAGCGCA	Intron	-2	436 L
<u>5951</u>	VIIII DOD LOCE CONTROL CONTROL CONTROL		Intron	<u>'</u>	436 L

Gly > Ser	G>A	6024	CTITIGTGGTCTTCCTCTGTGGCAAGAGCGTTTTCATCACC	Exon	C	C	2/0
Val > Ala	T>C	<u>6023</u>	AGGCGGTCTTGCTGTGGGTCTTCCTCTGTGGCAAGAGCG	Exon	2	C	570
Pro > Leu	C>T	6022		Exon		0	570
	G>C	<u>6021</u>	TTAACCACTTGACCGTATATGGTTTTCATCCTTGAAGACTG	Intron	<u>-</u>	C	570
	C>T	6020	CTCCAATTGGCGAGAAGTTCCGTTTGCTTTTTTAGGACACAG	Intron	ယ်	~	561
	G>A	6019	TCCAATTGGCGAGAAGTTCCGTTGCTTTTTTAGGACACAGA	Intron	-2	~	561
	G>C	6018	TACCAAGTCTCTAAACATGGGGGCACCATCTCACATGTCCT	Intron	-1	~	561
	A>G	6017	CCAGTGATGTCTCATCCACTATCTGCTGGTTATCTCTGCTT	Intron	+3	~	561
	C>T	6016	TGAGGCACCCAGTGATGTCTCATCCACTATCTGCTGGTTAT	Intron	+2	~	561
	C>G	6015	ATCTGGGGCCCTGGAGGAGGAGCAGGGAGGAAC	Intron	+	~	561
	T>A	6014	GACACCCAGATTTTCAGGCATCAAGTTCTTTCTTGCCTCAG	Intron	ယ်	×	561
	A>C	6013	TCTCTCTGTGAGGGTAAGGAACACATCTGCTCTGTTTACTA	Intron	-2	×	561
	A>T	6012	TCTGTGAGGGTAAGGAACACATCTGCTCTGTTTACTACTTA	Intron	-1	×	561
	T>C	6011	GTGTTTTAGGGGGAGCTGAATGGGCAGAAAGGCCTTGTGCC	Exon		ס	561
	T>C	6010	TAAGCAAACCTATTTAGCCTTTTTAATCTCTGTCCCGTTCT	Intron	+1	ס	561
	G>A	6009	TTGGGCAAAAGCCACCCTACGAACCAGGACTGCCAGTAGTC	Intron	+4	3	561
	G>A	6008	GCCAAAGTCATGTAAATGTT <u>G</u> ACCAGTGATTTTTCTTGGGC	Intron	+3	3	561
	G>A	6007	TATGCCAAAGTCATGTAAAT <b>G</b> TTGACCAGTGATTTTTCTTG	Intron	+2	3	561
	C>A	6006	AAAATAGGTAAGCGCAAACCCCCTATTCGACCTTCCCTGTGC	Intron	+1	3	561
	G>A	6005	CTGGAAGATGGGGGAAGGAGGCGCCCAGCGGCACGTCCCA	Exon	1	ل	561
	A>G	6004	TCACCCAGCCGCATCCTGCCACAGCCCACAGGGCACCCCGGT	Exon	1	I	561
	G>*	6003	GGCTCCCCATTGCAGGACCGCGGGGGGGGCTCACCTCGGGCAGC	Intron	-2	I	561
	G>A	6002	GCTCACCTCGGGCAGCCCGCGAGCCAGCTCTGCTTGTCCAC	Intron	-1	I	561
	G>A/C	6001	GCCAGGGCTGGTCCCTGAACGCCTCCGTTCCCCTTCTGTCCC	Intron	-1	ဝ	561
	C>T	6000	GTGGGGAGGGTTTGTTAGGCCCTAACGCAGCAGGACCGGC	Intron	+3	G	561
- 1	G>A	5999	GGGTGGGGAGGGTTTGTTAGGCCCTAACGCAGCAGGACCG	Intron	+2	G	561
Ala > Val	C>T	5998	AGCTGAGCTGCCCCTCACGGCGGGAAAATACCTCTACGTCT	Exon	1	Ш	561
	G>C	<u>5997</u>	ACTCCGTAGTTACCAGGTTTGCCCCTCTTTGACGACTGGAAA	Intron	+2	Ш	561
	T>C	5996	CAGGGCTCCCAACATACTCCTGGCCACCCAGCCCTCCTCTC	Intron	+1	m	561
	G>A	5995	GAATATATCCGGCCCCTTCCGCAGCCTGGTGACAGGCCGGA	Exon	<b>-</b>	C	561
	C>G	5994	AAGTTCCGGCAGCACGCTGG <u>C</u> AAGATTGACCTGCTGGGTGG	Exon		œ	561
	A>G	5993	CGAGGGTGTGCACAGGTGAAAATCGGTTTGGTGACACCTGGC	Intron	+2	æ	561
	C>T	5992	TGTGGTGGGGAGAGAATGGC <u>C</u> GTTGGCTGCCTGCGAGGGTG	Intron	+	œ	561
	A>G	5991	CTGGTTGCAAGGTGTGACC <u>A</u> CAGGAATCCTGGAGGAACAGA	Exon	7	Þ	515
	T>C	5990	CTTCCAGATTCAGAGAATCIGATTTAGGGAAACTGTGGCAG	3' UTR	6	Þ	515
lle > MET	C>G	5989	ACTTCCAGATTCAGAGAATCTGATTTAGGGAAACTGTGGCA	Exon	5	Α	515
Val > Ile	G>A	5988	GTCACTGGACTCGGCCTAAGGTTTCCTGGAACTTCCAGATT	Exon	4	Þ	515

	( > I	<u>8061</u>	AGGCCCAGCCCTCAGAAACCGTTCAGTGCTACATTTGTGG	Intron	+3	>	/5/
	C>T	6060		Intron	+2	>	757
	0<5	<u>6059</u>	ACTITIGITIAGAGCCCTCCGTAAATATACATCTGTGTATT	Intron	+1	Þ	757
	1>C	<u>6058</u>	AAAAATGCTAACAACTATGA <u>T</u> TGTAGTTGCTAACTTATGGT	Intron	-	G	722
	G>A	6057	AAGTGAGTAATGGAGACTCC <u>G</u> TCTTTGTTAAAATCATGTTT	Intron	+1	П	722
Ser>Thr	G>C	<u>6056</u>	GGTGGAGGAGATTAGAAAACAGTATTGATAAAATAACTCAAT	Exon		C	722
	T<0	6055	CTGACCTCAGGTGATCCATCCGGCCTCGGACTCCCAAAGTGC	Intron	-4	\$	722
	C>G	<u>6054</u>	CTCAGGTGATCCATCCGCCTCGGACTCCCAAAGTGCTGAGA	Intron	ώ	\$	722
	C>T	<u>6053</u>	GCCACCACACCTGGCCAGGTCGTTTTATTTTAAATGAAGGA	Intron	-2	\$	722
	A>G	6052	GGATGTCTTTTAATGTGGCAATATGAAATTAACCATGCATG	Intron	-1	\$	722
	A>G	<u>6051</u>	CACGCAGTACAGATAATGCCATCTAGTGATACATCTGCCTG	Intron	+2	\$	722
Val > lle	G>A	<u>6050</u>	CCCAGAGGTGCATGAGCAGACCTCGTAACCGTCCTCCGAGC	Exon	ω	-	702
Asp > Asn	G>A	6049	TGTGTGGAGACTCACAGGCCGATGGATCTGTGGCTGCGGGC	Exon		_	702
Arg > Pro	0<6	6048	GACGCGGTGGCCCAGATCCGGGGGTGAAGCTTTCTTCTTCAA	Exon	_	ТП	702
	G>*	6047	GCCCTGTCCCGCGCTGCCCAGCCCAGCCCAC	Intron	-	П	702
Arg > His	1<0	<u>6046</u>	CCTCGTAGGGGAGCCCGTAGCGCAGCGGGTCACCCACCGGG	Exon		D	702
	G>A	6045	GGGATGCCTCGATGCCGGCTGCGCCAGAGGGATTCTGCAGG	Intron		D	702
Ala > Thr	G>A	6044	GCCCGACAGGCCAGCACCCAGCGAGGTCAGCCGGGCCGAGC	Exon		C	702
To the state of th	A>G	<u>6043</u>	GTGCCAGAGTCAGGGCTCCCACCCTTGCGGATGCTCGGGAT	Intron	-2	æ	702
	0<5	6042	GGGTGCGTGGCCAGGGTGAGGAACAGGGTCTCCGTGGAGGT	Intron	+3	В	702
	G>C	<u>6041</u>	GGAGGTGGGCGCGTGGCCAGGGTGAGGAACGGGGTCTCCGT	Intron	+2	В	702
	T>C	6040	ACCTGTCGTGGAGGTGGGTGTGGCCAGGGTGAGGAGCGG	Intron	+	В	702
	G>A	<u>6039</u>	TTTATTAAGACACTTTTCCGGCAGCTGCCCAGGGAAGAGAC	Intron	_	Þ	702
	T>C	<u>6038</u>	TGATGCTGATACGGGATCTCTTGTATCCTGCTCCTTCTGTG	Intron	<u>'</u>	-	698
	T>C	<u>6037</u>	GTTATTGATGGGCCCAGACTTTGGGGAAGAACAGACGAGTTG	Intron	+2	-	698
	A>G	<u>6036</u>	GTCTGCCTGCAAGGTTAGTCACCTGTGGGGGTTGCCATTCTA	Intron	+1	-	698
Arg > Lys	G>A	<u>6035</u>	AGCCATGGGCATGCAAATGAGAAAAGCAATAATGTAAGTTA	Exon		Ш	698
	G>A	6034	CGGGCCCTGGGGGGACACTGCCAGGGCCTGCCATGCTCAT	Exon	_	В	698
	C>T	6033	AGCCTTGCTATTGGCATCAGCTCTTTATTTTTTTTAAAAAAT	Intron	-	₿	698
	A>G	<u>6032</u>	TGTACTATTGGCCTCAGGCAAATCCCCACCTCAGCCCCCGAAA	Intron	-	TI	581
	G>T	<u>6031</u>	CTTTGCTGTTCAGATTGTTCGGCTTGTTTATTCCTG	Intron	+2	П	581
	G>C	<u>6030</u>	TGTGGCCACTTTGCTGTTCAGATTGTTCGGTTTGGCTTGTT	Intron	+1	71	581
	T>C	<u>6029</u>	TATTTGAACTATTACTTTTICTTCTGGCTGCTATTCAAGG	Exon	1	ر	570
	G>A	6028	ATGITCTTTGTCATGTGCTCGGGCCTTTGCTGCAGGTAAGAG	Exon		TI	570
	C>T	6027	AAGAAATCTTTTCCCAGTTCCGTTGTCTCTAAACTGAAGAG	Intron	-1	TI	570
	T>C	6026	GTTGTGGATTCAGAATATAG <u>T</u> GCTCACACGCAGTCGTGCCC	Intron	+1	П	570
	C>T	6025	GAGGGCAGTGCTTCACAGACATGTTCAAGATACTGACGTA	Exon	4	C	570

C>T	<u>6068</u>	AGCCGGAGAAAACCGGCCAGCGTGATCACCAGCGGTGGGAT	Exon	5	Α	757
G>C	<u>6067</u>	CTCACCTTCCTCATCGACCCGGGCCCGCCTTCCGGCTACCCCGA	Exon	4	A	757
G>C	6066	TTGCACGAGTTCGCGCCGCTGGTGGAGTACGGCTGCCACGG	Exon	2	Α	757
G>A	6065	CCGAGCCGGGGCGCTGTGCGCAGCCTCGGGCCAGGCCGG	Intron	-1	Α	757
A>G	<u>6064</u>	GTCTAGTGTATTCTCTTCACAGGTGCCAGGAAAGAGTGGTTT	Intron	+6	Α	757
G>A	<u>6063</u>	GACTGATTTGTGGAAAGGAGGGGGGGGAAGAGGGAGAAGGATC	Intron	+5	A	757
G>C	6062	ACCAAGCCAATGTTATAGACGTTTTGGACTGATTTGTGGAAA	Intron	+4	Α	757

Please replace Table 11A on pages 189-191 with the following table:

## TABLE 11A: ASA PRIMERS

Arg>Gln	G>A					N. W. W.		
Arg>His		6109	CAGITICCATCGCCTIGACG	0090				치
Arg>His			CACTICCATCCCCAAAI		CAGITTCCGTCGCCCCAA		ASO	I :
			COATOACTOCOATA		CATCACTECCETCCCAAA		ASO	454 H 1
	A>T					BstYI	RFLP	454_G1
	C>T	6107	CCCTCGGTTCCCACCGTC	6091	CCCTCGGTCCCCACCGTC		ASO	454_F2
	C>T					Banl	RFLP	454_E_3
His>Tyr	C>T					Nalli		'
Gly>Arg	G>A					Hpall		, 'u
	C>T					Pstl	RFLP	ון יי
Val>Ala	T>C					Bstul	RFLP	¦œ
	T>C					Hhal		
	C>T					Xmal		436_L3
	C>T		CTCCCTCCTGCCTGCCAC	6079	CTCCCTCCCGCCTGCCAC		ASO	「
	G>C	6089	CTCAGGAACGGGCACGCA	6078	CTCAGGAAGGGGCACGCA		ASO	436_K2
	C>G					AlwNI	RFLP	436_K_+1
Ser>Gly	A>G	6088	CAGGACACGGTTTCCAG	6077	GCAGGACACAGTTTCCAGGA		ASO	436_G_1
	C>T					Avall	RFLP	436_E_1
	G>A					Dralli	RFLP	436_D_1
	C>T					Mwol	RFLP	436_C1
	G>A					Dralli	RFLP	436_C_+1
Leu>Phe	C>T	***************************************	CGTGCAACTGTTCATCCTGG	6076	GTGCAACTGCTCATCCTG		ASO	436_A_2
Gly>Cvs	G>T		GCCATGGCGTGCTGC	6075	CCCTCGGTTCCCACCGTC		ASO	436_A_1
	G>A		CTGTTTTAAAACCACAGCCTGG	6074	TGTTTTAAAGCCACAGCCT		ASO	436_A_+2
	G>A		TATTCATACTCATGCTCTGGCT	6073	TCATACTCGTGCTCTGGC		ASO	422_E_2
Pro>Ser	C>T		GTGCTTGACCTCCAAATCCG	6072	TGCTTGACCCCCAAATCC		ASO	¦m
	C>T	6082	CCACCTCAACTCAGGCGTTT	6071	ACCTCAACCCAGGCGTTT		ASO	214_E_2
Val>Leu	G>T	6081	CTCTCTCTTTGAGTGTCCTGG	6070	CTCTCTCTGTGAGTGTCC		ASO	214_E_1
	C>T			ļ		Aval	RFLP	214_E1
	G>C					Mspl	RFLP	214_E_+2
	T>C					Pvull	RFLP	214_E_+1
	C>T	6080	CACCTCAACTCAGGCGTTTG	6069	ACCTCAACCCAGGCGTT		ASO	<u> </u>
	C>T					Ndell	RFLP	214_B_1
AA change	Base change	SEQ ID NO:	ASO Primer2	SEQ ID	RFLP EnzymeASO Primer1	RFLP Enzyn	ASA Type	S <b>N</b> P

702_B_+1 ASO	A -1	+-		F_+2		C_4	) C		)  - )   c	) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	561_X3 ASO	_P_1	561_M_+1 ASO	561_J_1 ASO	561_H_1 ASO	561_E_1 ASO	561_E_+1 RFLP	561_C_1 RFLP	561_B_1 ASO	561_B_+1 ASO	_A_7	515_A_6 RFLP	515_A_5 RFLP	515_A_4 RFLP	515_A_3 RFLP	515_A_2 ASO	515_A_1 ASO	454_O_6 RFLP	454_O_5 ASO	454_O_3 RFLP	454_O_1 RFLP	454_M_2 ASO	454_M_1 RFLP	
					P Ddel				Nispi									Mspl	Mwol			.P Xcml	P Bsml	.P Bsml	P Bsu36I	P Haelli			_P Mboll		_P Hhal	PVull		P MspAI	_
AGGTGGGTGTGGCCAG		8	CATGCAAATGAGAAAAGCAAT	AGATTGTTCGGTTTGGCTT			CTTTCACAGACATGTTCAAG	CHIGGGGTCTTCC				ATTITCAGGCATCAAGTTCTTTC	GAGCTGAACGGGCAGAA	CGCAAACCCCTATTCGAC	GGAAGGAGGCGGCCCA	CATCCTGCCACAGCCACAG	CCTCACGGCGGGAAAAT			CACGCTGGCAAGATTGAC	AGAATGGCCGTTGGCTG						GGAAGATGACAGGTGAGC	GCGGATCCGCATCTTCT		ACTITGCCATCCTGCCCAG			CATCGACACTTACTCCAG		CUAMBACACGGAGAGATT
6129	6128	6127	6126	6125			6124	6123	<u> </u>			6106	6105	6104	6103	6102	6101			6100	6099						6098	6097		6096			6095		6094
GGTGGGTGGCCA	ACTITICCGTCAGCTGCCC	CCCACAGGCGACTAACC	GGCATGCAAATGAAAAAAAGCAAT	TCAGATTGTTCTGTTTGGCTTG			GCTTTCACAGATATGTTCAAGA	CTITIGTGGCCTTCCTCT				ATTITCAGGCAACAAGTTCTTTCT	GGAGCTGAATGGGCAGAAAG	GCGCAAACCACTATTCGACC	GGGAAGGAGACGGCCCAG	ATCCTGCCGCAGCCACA	CCCTCACGGTGGGAAAATAC			CACGCTGGGAAGATTGAC	GAGAATGGCTGTTGGCTGC						AGGAAGATAACAGGTGAGCC	TGCGGATCCACATCTTCTGG		ACTITGCCAACCTGCCCAG			CATCGACAGTTACTCCAG		ACCAAGACA I GGAGAGA I ICC
6141	6140	6139	6138	6137			6136	6135				6122	6121	6120	6119	6118	6117			6116	6115						6114	6113		6112			6111	10	-R110
T>C	G>A	A>G	G>A	G>T	G>A	C>T	G>A	T>C	C>T	G>C	C>G	Т>А	T>C	C>A	G>A	A>G	C>T	→ () >C :	G>A	C>G	C>T	A>G	Т>C	C>G	G>A	G>C	G>A	G>A	A>G	T>A	A>C	A>G	C 3	) <u>-</u>	5 1
			Arg>Lys				Gly>Ser	Val>Ala	Pro>Leu			١.	Ara>Trn			3	Ala>Val							Valvid		MET VIG	METAILS	Ara> Lie		Gladen			Ala > I ni	À1	_

	C>T					Caco		
	(					200	סותם	757 A 5
	G>C					Sau96I	RFLP	757_A_4
	G>C	6146	GCGCCGCTCGTGGAGTA	6134	GUGUUGUIGGIGGAGIA		AUC	7_A_/C
	G>A	6145	CGCTGTGCACAGCGCTCG	6133	GC1616C6CAGC6C1C		200	767 0 3
	G>C				001010000000000000000000000000000000000	i by Critic	200	757 0 1
	T>C	6144	CAACIAIGACIGIAGIIGC	0132	TACAACIAIGAIIGIAGIIGCIA 6132	באיייייייייייייייייייייייייייייייייייי	ם ופס	757 0 +4
	G>A				00000T0T00T0T0T0T0		ASO!	722 G -1
Ser>Inr	920	0410				Tth 1 1 1	RFI P	722 F +1
1 3		6143	GATTAGAAACACTATTGATAAA	6131	GATTAGAAACAGTATTGATAAA		ASO	722_C_1
Val>lle	G>A					DpnII	7777	102_1_3
Asp>Asn	G>A					) \( \	ָרְילָילָ קרייליילייליילייליילייליילייליילייליילייל	702   7
Arg>Pro	G>C					V 140	ם מו	703 1 1
Arg>His	C>T					2	RFI D	702 F 1
Ala> I hr	G>A					Hhai	RFI P	702 D 1
*						Haell	RFLP	702_C_1
	G>C	6142	AGGGTGAGCAACGGGGT	6130	AGGGTGAGGAACGGGGT	• •	ASO	/UZ_B_+3

Please replace Table 11B on page 194 with the following table:

TABLE 11B: EPA PRIMERS

SNP	Primer Seq. (5'-3')	SEQ ID NO:
436_K2	TTATTCTTTGCGTGCCC	<u>6147</u>
436_K2	ACCTTCCCTTCTCCAAGACC	<u>6148</u>
436_K2	ATTCCAGGCTTCTCAGGAA	<u>6149</u>
436_K2	CGCCTGAGTTTAGCATAGGG	<u>6150</u>
454_F2	CATGGGCTCCCTCGGT	<u>6151</u>
454_F2	CCGGGGAAGTCGATATTGTT	<u>6152</u>
454_F2	CATGGGCTCCCTCGGT	<u>6153</u>
570_C_2	GCGGTCTTGCTTTTGTGG	<u>6154</u>
570_C_2	TTACTCTGGCGCTCTCCACT	<u>6155</u>
570_C_2	CGGTCTTGCTTTTGTGG	<u>6156</u>
698_I_+1	AGAATGGCAACCCCACAGG	<u>6157</u>
698_I_+1	GCTGGTTCTCACGCTGCATATTT	<u>6158</u>
698_I_+1	GTAGAATGGCAACCCCACAGG	<u>6159</u>